



STIC Search Report

Biotech-Chem Library

STIC Database Tracking Number: 115643

TO: Hong Liu
Location: REM-5C11
Art Unit: 1624
Friday, March 05, 2004

5C18

Case Serial Number: 09/669298

From: Barb O'Bryen
Location: Biotech-Chem Library
Remsen E01A69
Phone: 571-272-2518

BOB

barbara.obryen@uspto.gov

Search Notes



STIC SEARCH RESULTS FEEDBACK FORM

Biotech-Chem Library

Questions about the scope or the results of the search? Contact *the searcher or contact*:

Mary Hale, Information Branch Supervisor
Remsen Bldg. 01 D86
571-272-2507

Voluntary Results Feedback Form

➤ I am an examiner in Workgroup: Example: 1610

➤ Relevant prior art **found**, search results used as follows:

- ☐ 102 rejection
- ☐ 103 rejection
- ☐ Cited as being of interest.
- ☐ Helped examiner better understand the invention.
- ☐ Helped examiner better understand the state of the art in their technology.

Types of relevant prior art found:

- ☐ Foreign Patent(s)
- ☐ Non-Patent Literature
(journal articles, conference proceedings, new product announcements etc.)

➤ Relevant prior art **not found**:

- ☐ Results verified the lack of relevant prior art (helped determine patentability).
- ☐ Results were not useful in determining patentability or understanding the invention.

Comments:

Drop off or send completed forms to STIC-Biotech-Chem Library Remsen Bldg.



=> fil reg; d stat que 16; fil cap1; d que nos 17; fil uspatf; d que nos 18
FILE 'REGISTRY' ENTERED AT 12:33:07 ON 05 MAR 2004
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Property values tagged with IC are from the ZIC/VINITI data file
provided by InfoChem.

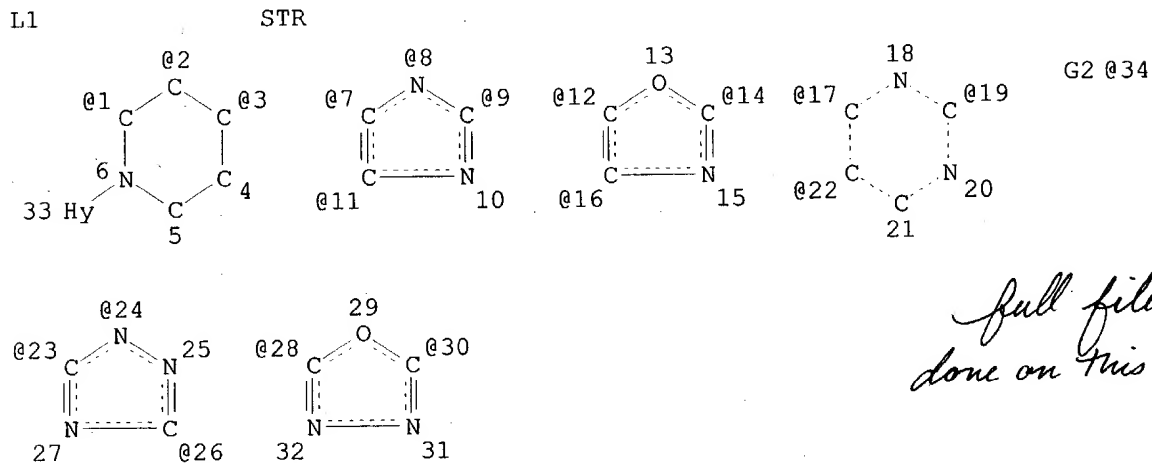
STRUCTURE FILE UPDATES: 3 MAR 2004 HIGHEST RN 658036-92-1
DICTIONARY FILE UPDATES: 3 MAR 2004 HIGHEST RN 658036-92-1

TSCA INFORMATION NOW CURRENT THROUGH JANUARY 6, 2004

Please note that search-term pricing does apply when
conducting SmartSELECT searches.

Crossover limits have been increased. See HELP CROSSOVER for details.

Experimental and calculated property data are now available. For more
information enter HELP PROP at an arrow prompt in the file or refer
to the file summary sheet on the web at:
<http://www.cas.org/ONLINE/DBSS/registryss.html>

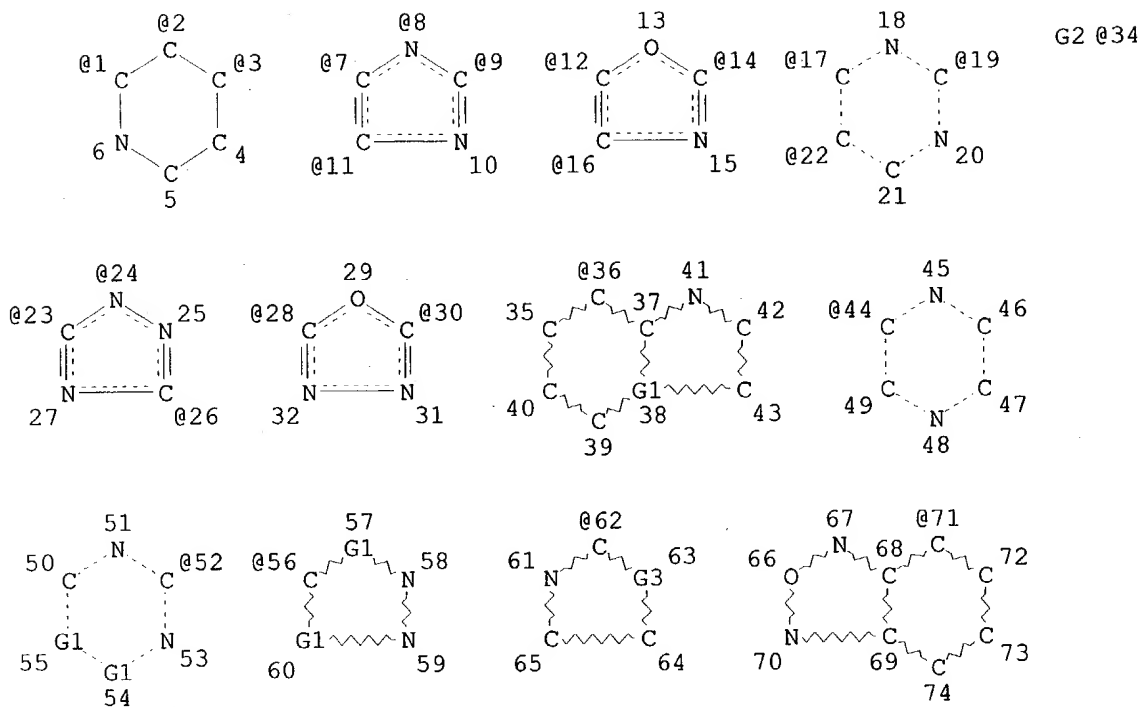


*full file search
done on this structure*

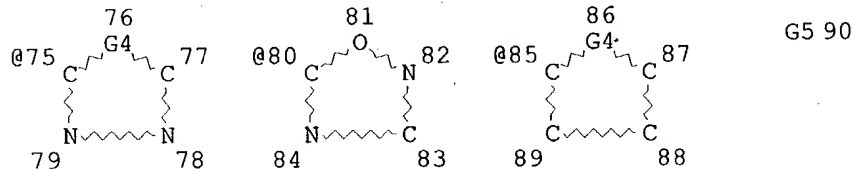
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VPA 34-1/2/3 U
NODE ATTRIBUTES:
DEFAULT MLEVEL IS ATOM
MLEVEL IS CLASS AT 33
GGCAT IS UNS AT 33
DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:
RING(S) ARE ISOLATED OR EMBEDDED
NUMBER OF NODES IS 34

STEREO ATTRIBUTES: NONE
L2 584 SEA FILE=REGISTRY SSS FUL L1
L3 STR



Page 1-A



Page 2-A

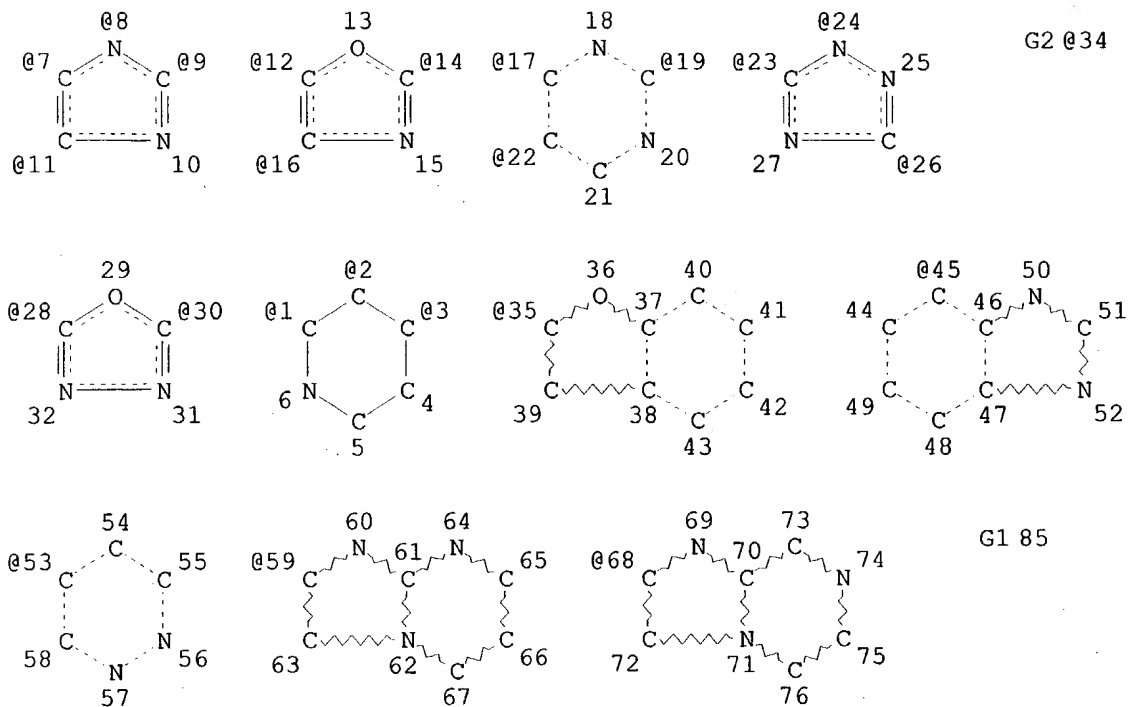
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 VAR G4=O/N/S
 VAR G5=36/44/52/56/62/71/75/80/85
 VPA 34-1/2/3 U
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 DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:

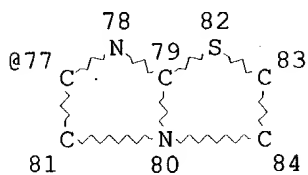
RSPEC 7
 NUMBER OF NODES IS 89

STEREO ATTRIBUTES: NONE
 L4 STR

*subset search
 done looking for
 this structure or
 structure on next page
 (R, more narrowly
 def. ned)*



Page 1-A



Page 2-A

VAR G1=35/45/53/59/68/77

VAR G2=7/8/9/11/12/14/16/19/17/22/24/23/26/28/30

VPA 34-1/2/3 U

NODE ATTRIBUTES:

DEFAULT MLEVEL IS ATOM

DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:

RSPEC 7

NUMBER OF NODES IS 84

STEREO ATTRIBUTES: NONE

L6 390 SEA FILE=REGISTRY SUB=L2 SSS FUL (L3 OR L4)

100.0% PROCESSED 584 ITERATIONS

390 ANSWERS

SEARCH TIME: 00.00.01

FILE 'CAPLUS' ENTERED AT 12:33:07 ON 05 MAR 2004

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FILE COVERS 1907 - 5 Mar 2004 VOL 140 ISS 11
FILE LAST UPDATED: 4 Mar 2004 (20040304/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

'OBI' IS DEFAULT SEARCH FIELD FOR 'CAPLUS' FILE

L1 STR
L2 584 SEA FILE=REGISTRY SSS FUL L1
L3 STR
L4 STR
L6 390 SEA FILE=REGISTRY SUB=L2 SSS FUL (L3 OR L4)
L7 26 SEA FILE=CAPLUS ABB=ON L6

FILE 'USPATFULL' ENTERED AT 12:33:07 ON 05 MAR 2004
CA INDEXING COPYRIGHT (C) 2004 AMERICAN CHEMICAL SOCIETY (ACS)

FILE COVERS 1971 TO PATENT PUBLICATION DATE: 4 Mar 2004 (20040304/PD)
FILE LAST UPDATED: 4 Mar 2004 (20040304/ED)
HIGHEST GRANTED PATENT NUMBER: US6701528
HIGHEST APPLICATION PUBLICATION NUMBER: US2004045070
CA INDEXING IS CURRENT THROUGH 4 Mar 2004 (20040304/UPCA)
ISSUE CLASS FIELDS (/INCL) CURRENT THROUGH: 4 Mar 2004 (20040304/PD)
REVISED CLASS FIELDS (/NCL) LAST RELOADED: Dec 2003
USPTO MANUAL OF CLASSIFICATIONS THESAURUS ISSUE DATE: Dec 2003

>>> USPAT2 is now available. USPATFULL contains full text of the <<<
>>> original, i.e., the earliest published granted patents or <<<
>>> applications. USPAT2 contains full text of the latest US <<<
>>> publications, starting in 2001, for the inventions covered in <<<
>>> USPATFULL. A USPATFULL record contains not only the original <<<
>>> published document but also a list of any subsequent <<<
>>> publications. The publication number, patent kind code, and <<<
>>> publication date for all the US publications for an invention <<<
>>> are displayed in the PI (Patent Information) field of USPATFULL <<<
>>> records and may be searched in standard search fields, e.g., /PN, <<<
>>> /PK, etc. <<<

>>> USPATFULL and USPAT2 can be accessed and searched together <<<
>>> through the new cluster USPATALL. Type FILE USPATALL to <<<
>>> enter this cluster. <<<
>>> <<<
>>> Use USPATALL when searching terms such as patent assignees, <<<
>>> classifications, or claims, that may potentially change from <<<
>>> the earliest to the latest publication. <<<

This file contains CAS Registry Numbers for easy and accurate substance identification.

L1 STR
L2 584 SEA FILE=REGISTRY SSS FUL L1
L3 STR
L4 STR
L6 390 SEA FILE=REGISTRY SUB=L2 SSS FUL (L3 OR L4)
L8 13 SEA FILE=USPATFULL ABB=ON L6

=> dup rem 17,18

FILE 'CAPLUS' ENTERED AT 12:33:13 ON 05 MAR 2004
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FILE 'USPATFULL' ENTERED AT 12:33:13 ON 05 MAR 2004
CA INDEXING COPYRIGHT (C) 2004 AMERICAN CHEMICAL SOCIETY (ACS)
PROCESSING COMPLETED FOR L7
PROCESSING COMPLETED FOR L8
L10 38 DUP REM L7 L8 (1 DUPLICATE REMOVED)
ANSWERS '1-26' FROM FILE CAPLUS
ANSWERS '27-38' FROM FILE USPATFULL

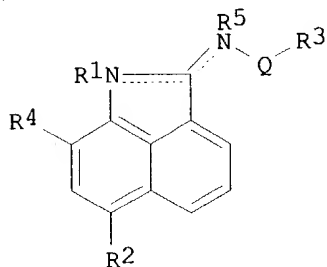
~~*~~ d ibib ed abs hitstr 1-38; fil cao; d que nos 19; fil hom

L10 ANSWER 1 OF 38 CAPLUS COPYRIGHT 2004 ACS on STN DUPLICATE 1
ACCESSION NUMBER: 2002:444492 CAPLUS
DOCUMENT NUMBER: 137:20295
TITLE: Preparation of benz[cd]indol-2-imines and -amines as
inhibitors of farnesyl protein transferase.
INVENTOR(S): Ayral-Kaloustian, Semiramis; Kitchen, Douglas Bruce;
Shavnya, Andrei
PATENT ASSIGNEE(S): American Cyanamid Company, USA
SOURCE: U.S., 13 pp.
CODEN: USXXAM
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 6403581	B1	20020611	US 2001-765911	20010119
PRIORITY APPLN. INFO.:			US 2000-266306P	P 20000119
			US 2000-487517	A 20000119

OTHER SOURCE(S): MARPAT 137:20295
ED Entered STN: 13 Jun 2002
GI

*ED is a new field in some STN files, that
which provides the date that some portion of
the record became available/searchable
on STN*



AB Title compds. [I; dotted lines = optional double bonds; R1 = H, alkyl, Ph, Ph2CH, pyridinylalkyl, cyanoalkyl, diethylaminoalkyl, etc.; R2 = alkoxy, CF3, halo; R3 = H, (substituted) heterocyclyl; R4 = H, halo, alkyl; R5 = H, alkyl; Q = (substituted) (CH2)m interrupted by CH:CH, C.tplbond.C, O, S, SO, SO2, NH, etc.; m = 1-12], were prepd. Thus, N-[3-(1H-imidazol-1-yl)propyl]-6-iodobenz[cd]indol-2-amine (prepn. given) was stirred with NaH in DMF at 0.degree. followed by addn. of KI and 4-chlorobenzyl chloride and warming to 20.degree. to give N-[1-(4-chlorobenzyl)-6-iodobenz[cd]indol-2-(1H)-ylidene]-3-(1H-imidazol-1-yl)-1-propanamine. I inhibited FPTase with IC50 = 0.10-6.70 .mu.M using H-Ras as farnesylation substrate.

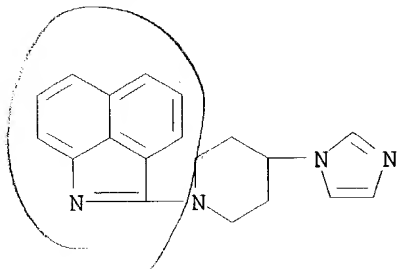
IT 434956-47-5P

RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(prepn. of benz[cd]indol-2-imines and -amines as inhibitors of farnesyl protein transferase)

RN 434956-47-5 CAPLUS

CN Benz[cd]indole, 2-[4-(1H-imidazol-1-yl)-1-piperidinyl]-, monohydriodide (9CI) (CA INDEX NAME)



● HI

REFERENCE COUNT: 28 THERE ARE 28 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

~~140~~ ANSWER 2 OF 38 CAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 2004:2865 CAPLUS

DOCUMENT NUMBER: 140:77167

TITLE: Preparation and new use of pyrimidine- or triazine-2-carbonitriles for treating diseases associated with cysteine protease activity

INVENTOR(S): Bailey, Andrew; Pairaudeau, Garry; Patel, Anil; Thom, Stephen

PATENT ASSIGNEE(S): Astrazeneca AB, Swed.

SOURCE: PCT Int. Appl., 41 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2004000819	A1	20031231	WO 2003-SE1078	20030623

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG,

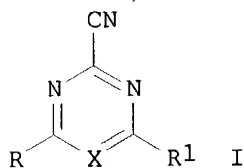
KZ, MD, RU, TJ
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, BG,
CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC,
NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ,
GW, ML, MR, NE, SN, TD, TG

PRIORITY APPLN. INFO.: SE 2002-1976 A 20020624

OTHER SOURCE(S): MARPAT 140:77167

ED Entered STN: 02 Jan 2004

GI



AB The title compds. [I; X = N, CA (wherein A = H, halo, CHR2R3, OR2, NR2R3, SR2; R2, R3 = H, alkyl, cycloalkyl, etc.); R, R1 = Y(CH2)pR9 (p = 0-3; Y = O, NR10; R10 = H, alkyl, cycloalkyl; R9 = H, alkyl which optionally contain one or more O, S or NH, etc.), NR10(CHR10)CONR2R3, NR10(CH2)qCONR2R3 (q = 1-3), etc.], useful for treating diseases assocd. with cysteine protease activity (no data), were prepd. and formulated. E.g., a 3-step synthesis of 4-[(4-chlorophenyl)amino]-6-(dimethylamino)-1,3,5-triazine-2-carbonitrile (starting from 4-chloroaniline and trichlorotriazine), was given. The compds. I are reversible inhibitors of cysteine proteases S, K, F, L and B. Of particular interest are diseases assocd. with Cathepsin S.

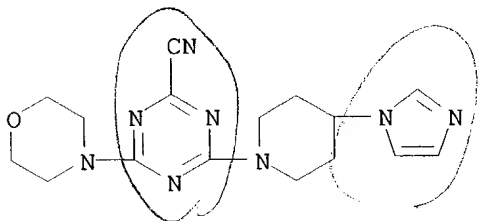
IT 639854-50-5P

RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(prepn. and new use of pyrimidine- or triazine-2-carbonitriles for treating diseases assocd. with cysteine protease activity)

RN 639854-50-5 CAPLUS

CN 1,3,5-Triazine-2-carbonitrile, 4-[4-(1H-imidazol-1-yl)-1-piperidinyl]-6-(4-morpholinyl)- (9CI) (CA INDEX NAME)



REFERENCE COUNT:

4

THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

~~L10~~ ANSWER 3 OF 38 CAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 2003:591178 CAPLUS

DOCUMENT NUMBER: 139:149653

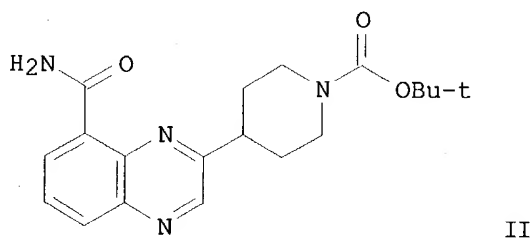
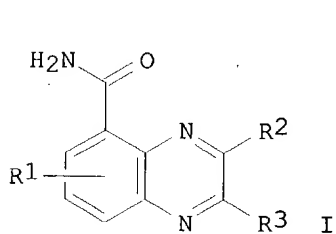
TITLE: Preparation of quinoxaline derivatives as poly(ADP-ribose) polymerase (PARP) inhibitors for treatment of rheumatoid arthritis

INVENTOR(S): Takayama, Kazuhisa; Masuda, Naoyuki; Hondo, Takeshi; Hirabayashi, Ryoji; Seki, Norio; Koga, Yuji; Naito, Ryo; Okamoto, Yoshinori; Kaizawa, Hiroyuki; Okuda, Takao; Okada, Youhei; Takeuchi, Makoto

PATENT ASSIGNEE(S): Yamanouchi Pharmaceutical Co., Ltd., Japan
 SOURCE: PCT Int. Appl., 68 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: Japanese
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2003062234	A1	20030731	WO 2003-JP545	20030122
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				

PRIORITY APPLN. INFO.: JP 2002-14121 A 20020123
 OTHER SOURCE(S): MARPAT 139:149653
 ED Entered STN: 01 Aug 2003
 GI



AB The title quinoxaline derivs. with general formula of I [wherein wherein R₁ = H, alkoxy, halo, or (un)substituted alkyl; R₂ = halo, (un)substituted OH, SH, or amino, etc.; R₃ = H, OH, halo, (un)substituted cycloalkyl, cycloalkenyl, heterocyclyl, or alkyl, etc.; with exclusions] and pharmaceutically acceptable salts thereof are prepd. as poly(ADP-ribose) polymerase (PARP) inhibitors for the treatment of rheumatoid arthritis. For example, the quinoxalinecarboxamide II was prepd. in a four-step synthesis starting from N-(tert-butoxycarbonyl)isonipecotic acid comprising ring formation reaction. Some of compds. I showed IC₅₀ of 3.8-72 nM against human PARP.

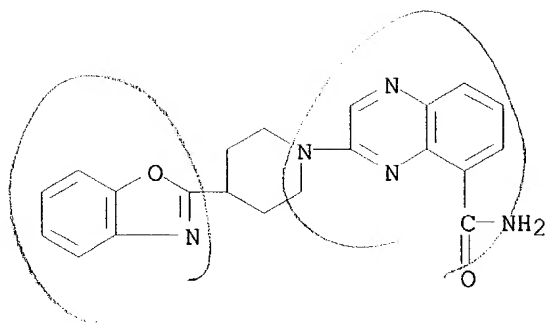
IT 569666-08-6P 569666-12-2P

RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(drug candidate; prepn. of quinoxaline derivs. as PARP inhibitors for treatment of rheumatoid arthritis)

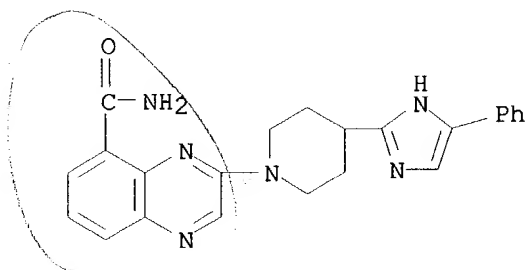
RN 569666-08-6 CAPLUS

CN 5-Quinoxalinecarboxamide, 3-[4-(2-benzoxazolyl)-1-piperidinyl]-, monohydrochloride (9CI) (CA INDEX NAME)



● HCl

RN 569666-12-2 CAPLUS
CN 5-Quinoxalinecarboxamide, 3-[4-(4-phenyl-1H-imidazol-2-yl)-1-piperidinyl]-
(9CI) (CA INDEX NAME)



REFERENCE COUNT: 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

LEO ANSWER 4 OF 38 CAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 2003:376549 CAPLUS

DOCUMENT NUMBER: 138:385306

TITLE: Preparation of substituted 4-phenyl-4-(1H-imidazol-2-yl)piperidine derivatives for reducing ischemic damage

INVENTOR(S): Janssens, Frans Eduard; Leenaerts, Joseph Elisabeth; Fernandez-Gadea, Francisco Javier; Gomez-Sanchez, Antonio; Flameng, Willem; Herijgers, Paul Joannes Ludovicus; Meert, Theo Frans; Borgers, Marcel J. M.

PATENT ASSIGNEE(S): Janssen Pharmaceutica N.V., Belg.

SOURCE: PCT Int. Appl., 75 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2003039440	A2	20030515	WO 2002-EP11371	20021010
WO 2003039440	A3	20031218		

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM

RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL,

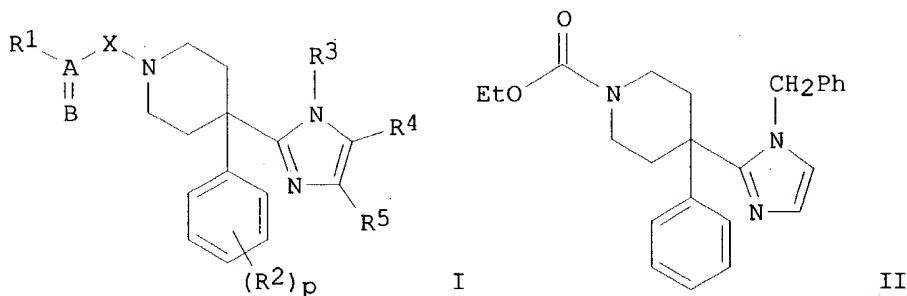
PT, SE, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR,
NE, SN, TD, TG

PRIORITY APPLN. INFO.: EP 2001-203927 A 20011015

OTHER SOURCE(S): MARPAT 138:385306

ED Entered STN: 16 May 2003

GI



AB Title compds. I [A=B = bivalent .pi.-bond radical; X = covalent bond, alkyl; R1 = H, alkoxy, alkylcarbonyloxy, aryloxy, etc.; R2 = OH, alkoxy, alkylcarbonyloxy, phenyloxy, etc.; R3 = alkyl, aryl, heteroaryl, etc.; R4-5 = H, alkyl, carboxy, aminocarbonyl, etc.; p = 0-3] are prepd. N-[chloro(1-methyl-4-phenyl-4-piperidinyl)methylene]benzenemethanamine.bul .HCl (100%). Addn. of dimethoxyethanamine in DMF to give the piperidinecarboximidamide (100%), followed by redn. with NaOH provided 1-methyl-4-phenyl-4-[1-(phenylmethyl)-1H-imidazol-2-yl]piperidine (25%). Amidation with Et chloroformate in the presence of K2CO3 and DEA in toluene gave II (86 %). All compds. of the invention showed a pIC50 = 7-8 for the .delta.-opioid receptor and a pIC50 .ltoreq. 6 for the .mu.- and .kappa.-receptor in [35]GTP.gamma.S radioligand binding assays. I are used for the treatment of ischemic damage to an organ (heart, brain) and for the prevention of coronary artery diseases by inducing a cardioprotective effect and the treatment and prevention of stroke.

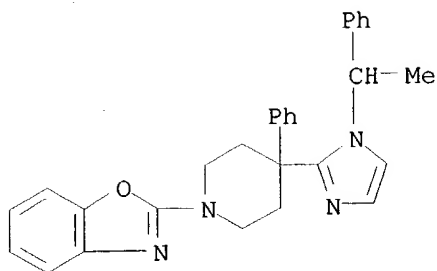
IT **516520-92-6P**, 1-(Benzoxazol-2-yl)-4-phenyl-4-(1-(1-(phenyl)ethyl)imidazol-2-yl)piperidine **516520-94-8P**
516520-96-0P, 1-(Pyrimidin-2-yl)-4-phenyl-4-(1-(benzyl)imidazol-2-yl)piperidine **516520-98-2P**, 1-(1-Methylbenzimidazol-2-yl)-4-phenyl-4-(1-(benzyl)imidazol-2-yl)piperidine **516521-00-9P**, 1-(Thiazol-2-yl)-4-phenyl-4-(1-(benzyl)imidazol-2-yl)piperidine **516521-02-1P**, 1-(Benzothiazol-2-yl)-4-phenyl-4-(1-(benzyl)imidazol-2-yl)piperidine

RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(prepn. of substituted 4-Ph-4-(1H-imidazol-2-yl)piperidine derivs. as opioid receptor ligands for reducing ischemic damage)

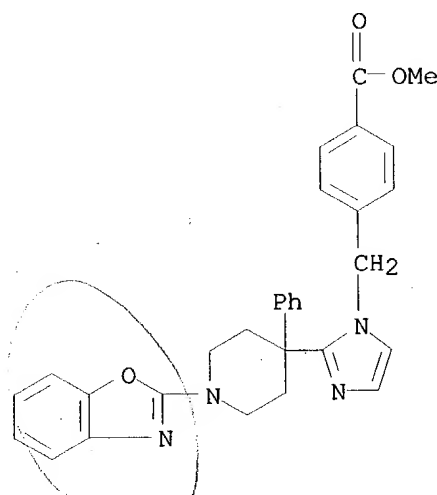
RN **516520-92-6** CAPLUS

CN Benzoxazole, 2-[4-phenyl-4-[1-(1-phenylethyl)-1H-imidazol-2-yl]-1-piperidinyl]- (9CI) (CA INDEX NAME)



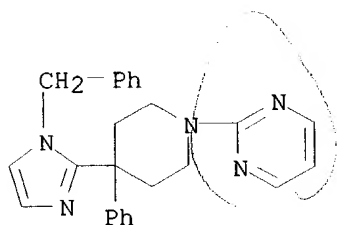
RN 516520-94-8 CAPLUS

CN Benzoic acid, 4-[[2-[1-(2-benzoxazolyl)-4-phenyl-4-piperidinyl]-1H-imidazol-1-yl]methyl]-, methyl ester (9CI) (CA INDEX NAME)



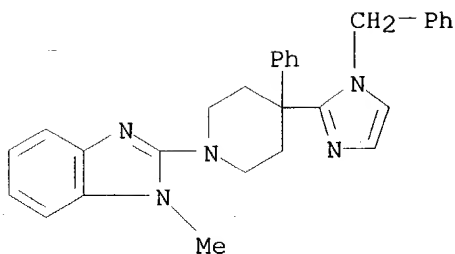
RN 516520-96-0 CAPLUS

CN Pyrimidine, 2-[4-phenyl-4-[1-(phenylmethyl)-1H-imidazol-2-yl]-1-piperidinyl]- (9CI) (CA INDEX NAME)

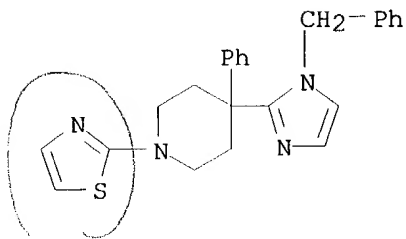


RN 516520-98-2 CAPLUS

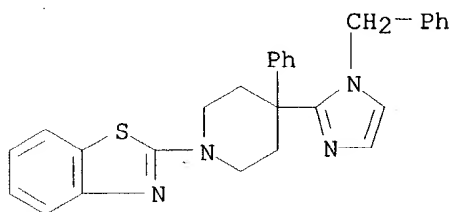
CN 1H-Benzimidazole, 1-methyl-2-[4-phenyl-4-[1-(phenylmethyl)-1H-imidazol-2-yl]-1-piperidinyl]- (9CI) (CA INDEX NAME)



RN 516521-00-9 CAPLUS
CN Piperidine, 4-phenyl-4-[1-(phenylmethyl)-1H-imidazol-2-yl]-1-(2-thiazolyl)-
(9CI) (CA INDEX NAME)



RN 516521-02-1 CAPLUS
CN Benzothiazole, 2-[4-phenyl-4-[1-(phenylmethyl)-1H-imidazol-2-yl]-1-piperidinyl]- (9CI) (CA INDEX NAME)



LIU ANSWER 5 OF 38 CAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 2003:319889 CAPLUS

DOCUMENT NUMBER: 138:338147

TITLE: Preparation of 4-phenyl-4-[1H-imidazol-2-yl]piperidine derivatives as selective non-peptide .delta.-opioid agonists for treatment of pain

INVENTOR(S): Janssens, Frans Eduard; Leenaerts, Joseph Elisabeth; Fernandez-Gadea, Francisco Javier; Gomez-Sanchez, Antonio; Meert, Theo Frans

PATENT ASSIGNEE(S): Janssen Pharmaceutica N.V., Belg.

SOURCE: PCT Int. Appl., 57 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
2003033486	A1	20030424	WO 2002-EP11372	20021010

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN,

CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM

RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG

PRIORITY APPLN. INFO.:

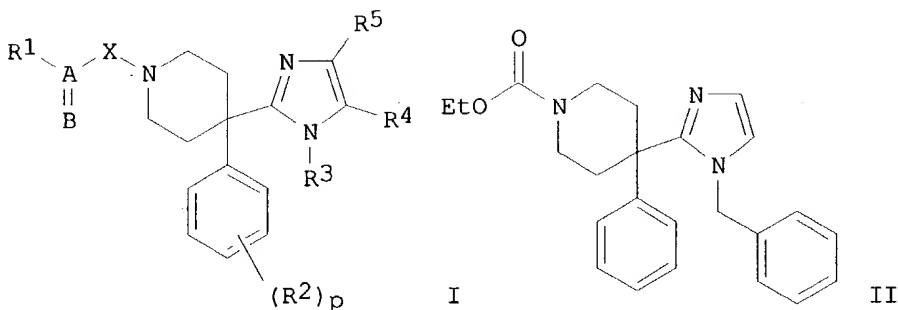
EP 2001-203926 A 20011015

OTHER SOURCE(S):

MARPAT 138:338147

ED Entered STN: 25 Apr 2003

GI



treatment of pain (no data).

IT 516520-92-6P 516520-94-8P 516520-96-0P

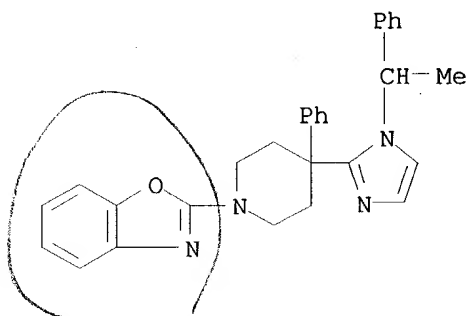
516520-98-2P 516521-00-9P 516521-02-1P

RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(.delta.-opioid receptor agonist; prepn. of (phenyl)(imidazolyl)piperidines as selective non-peptide .delta.-opioid agonists for treatment of pain)

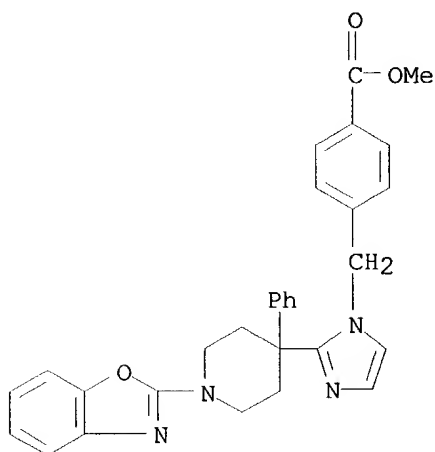
RN 516520-92-6 CAPLUS

CN Benzoxazole, 2-[4-phenyl-4-[1-(1-phenylethyl)-1H-imidazol-2-yl]-1-piperidinyl]- (9CI) (CA INDEX NAME)



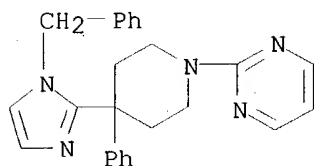
RN 516520-94-8 CAPLUS

CN Benzoic acid, 4-[[2-[1-(2-benzoxazolyl)-4-phenyl-4-piperidinyl]-1H-imidazol-1-yl]methyl]-, methyl ester (9CI) (CA INDEX NAME)



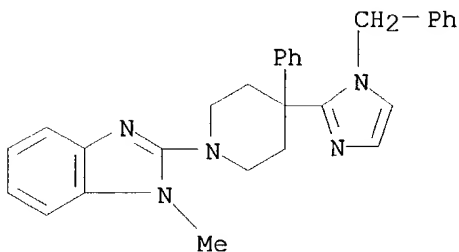
RN 516520-96-0 CAPLUS

CN Pyrimidine, 2-[4-phenyl-4-[1-(phenylmethyl)-1H-imidazol-2-yl]-1-piperidinyl]- (9CI) (CA INDEX NAME)



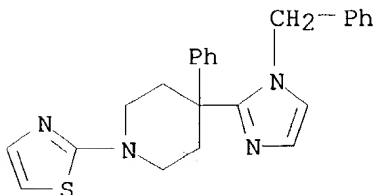
RN 516520-98-2 CAPLUS

CN 1H-Benzimidazole, 1-methyl-2-[4-phenyl-4-[1-(phenylmethyl)-1H-imidazol-2-yl]-1-piperidinyl]- (9CI) (CA INDEX NAME)



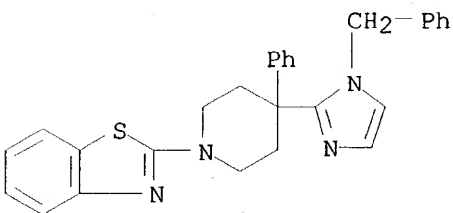
RN 516521-00-9 CAPLUS

CN Piperidine, 4-phenyl-4-[1-(phenylmethyl)-1H-imidazol-2-yl]-1-(2-thiazolyl)- (9CI) (CA INDEX NAME)



RN 516521-02-1 CAPLUS

CN Benzothiazole, 2-[4-phenyl-4-[1-(phenylmethyl)-1H-imidazol-2-yl]-1-piperidinyl]- (9CI) (CA INDEX NAME)



REFERENCE COUNT: 2 THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

~~110~~ ANSWER 6 OF 38 CAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 2002:408675 CAPLUS

DOCUMENT NUMBER: 136:401791

TITLE: Benzimidazole derivatives, specifically imidazo[4,5,1-j,k][1,4]benzodiazepin-7(4H)-one derivatives, and the preparation and therapeutic use thereof as inhibitors of poly(ADP-ribose)polymerase (PARP).

INVENTOR(S): Barth, Francis; Bichon, Daniel; Bolkenius, Frank; Van Dorsselaer, Viviane

PATENT ASSIGNEE(S): Sanofi-Synthelabo, Fr.

SOURCE: PCT Int. Appl., 48 pp.

CODEN: PIXXD2

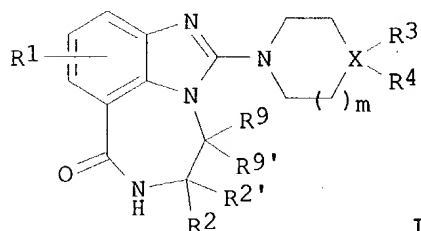
DOCUMENT TYPE: Patent

LANGUAGE: French

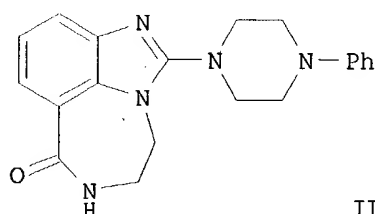
FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2002042306	A1	20020530	WO 2001-FR3667	20011121
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
FR 2816941	A1	20020524	FR 2000-15141	20001123
FR 2816941	B1	20030131		
FR 2816942	A1	20020524	FR 2001-6157	20010510
FR 2816942	B1	20030509		
AU 2002022003	A5	20020603	AU 2002-22003	20011121
EP 1339719	A1	20030903	EP 2001-997491	20011121
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR				
US 2004029866	A1	20040212	US 2003-432672	20030523
PRIORITY APPLN. INFO.:			FR 2000-15141	A 20001123
			FR 2001-6157	A 20010510
			WO 2001-FR3667	W 20011121
OTHER SOURCE(S): MARPAT 136:401791				
ED Entered STN: 31 May 2002				
GI				



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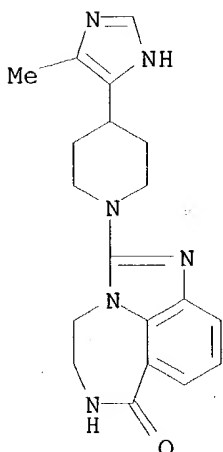


II

AB The invention concerns fused benzimidazole derivs. I, including their enantiomers, diastereomers, mixts., racemates, free bases, and pharmaceutically acceptable acid addn. salts [wherein: R1 = H, C1-4 alkyl or alkoxy, halo, NO₂; R2, R2', R9, R9' = H, C1-4 alkyl; X = N or C; m = 1 or 2; when X = N, then R3 = H, C1-C4 alkyl, or is absent, and R4 = in particular H, C1-C6 alkyl, C3-C7 cycloalkyl, (un)substituted 4-piperidyl, (CH₂)pNR5R6, (CH₂)pCONR5R6, CO(CH₂)pNR5R6, (un)substituted (CH₂)pPh, (CH₂)p-morpholinyl, (CH₂)p-pyrrolidinyl, (CH₂)p-tetrahydroisoquinoline, (CH₂)p-heteroaryl, heteroarylcarbonyl, phenylcarbonyl, C1-C6 alkylcarbonyl, (CH₂)pCOOR', or SO₂Ph; when X = C, then R3 = H, NR5R6, NHCOR7, CONHR5, COR7, NHCONH₂, OH, or CH₂OH, and R4 = in particular H, (un)substituted (CH₂)pPh, (CH₂)p-heteroaryl, or (CH₂)tNR7R8; p = 0-4; t = 0 or 1; R5, R6 = H, C1-4 alkyl; R7, R8 = C1-4 alkyl or alkoxy, or may together form an (un)substituted satd. ring of 5-7 members, optionally contg. an addnl. N atom]. I can be used for prepg. medicines for treating or preventing a wide variety of disorders wherein the PARP enzyme is involved. A table of 38 compds. I and salts is given. For instance, 4H-imidazo[4,5,1-ij]quinolin-2,6(1H,5H)-dione underwent chlorination of

the 2-oxo group with POCl₃ and NH₄Cl, and then ring-expansion at the 6-oxo group using NaN₃ and H₂SO₄. The resultant intermediate, 2-chloro-5,6-dihydroimidazo[4,5,1-jk][1,4]benzodiazepin-7(4H)-one, reacted with 1-phenylpiperazine in the presence of 2,6-lutidine and CsF, in triethylene glycol monomethyl ether at 140.degree., to give title compd. II in 53% yield. The most active compds. I inhibited human recombinant PARP-1 and/or PARP-2 in vitro with IC₅₀ values of 5-500 nM.

IT 429689-45-2P, 2-[4-(5-Methyl-1H-imidazol-4-yl)piperidin-1-yl]-5,6-dihydroimidazo[4,5,1-jk][1,4]benzodiazepin-7(4H)-one
RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(drug candidate; prepn. of benzimidazole derivs. as PARP inhibitors)
RN 429689-45-2 CAPLUS
CN Imidazo[4,5,1-jk][1,4]benzodiazepin-7(4H)-one, 5,6-dihydro-2-[4-(5-methyl-1H-imidazol-4-yl)-1-piperidinyl]- (9CI) (CA INDEX NAME)



REFERENCE COUNT: 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

ANSWER 7 OF 38 CAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 2002:123004 CAPLUS

DOCUMENT NUMBER: 136:183818

TITLE: Fused benzimidazole derivatives, and preparation and therapeutic use thereof as inhibitors of poly(ADP-ribose) polymerase (PARP)

INVENTOR(S): Barth, Francis; Bichon, Daniel; Bolkenius, Frank; Van Dorsselaer, Viviane

PATENT ASSIGNEE(S): Sanofi-Synthelabo, Fr.

SOURCE: PCT Int. Appl., 57 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: French

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2002012239	A1	20020214	WO 2001-FR2556	20010806
W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD			

RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG

FR 2812878	A1	20020215	FR 2000-10419	20000808
FR 2812878	B1	20021011		
FR 2816619	A1	20020517	FR 2000-14696	20001115
FR 2816619	B1	20030131		
AU 2001082267	A5	20020218	AU 2001-82267	20010806
EP 1309594	A1	20030514	EP 2001-960871	20010806

R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR

BR 2001013046	A	20030701	BR 2001-13046	20010806
JP 2004505975	T2	20040226	JP 2002-518214	20010806
BG 107460	A	20030930	BG 2003-107460	20030114
US 2003203893	A1	20031030	US 2003-343467	20030130
NO 2003000596	A	20030401	NO 2003-596	20030206

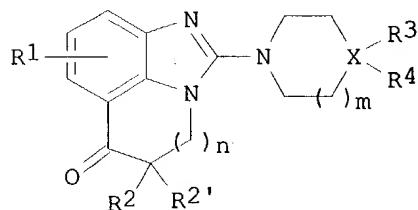
PRIORITY APPLN. INFO.:

FR 2000-10419	A	20000808
FR 2000-14696	A	20001115
WO 2001-FR2556	W	20010806

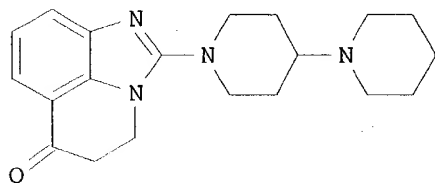
OTHER SOURCE(S): MARPAT 136:183818

ED Entered STN: 15 Feb 2002

GI



I



II

AB The invention concerns benzimidazole derivs. I [wherein: R1 = H, C1-4 alkyl or alkoxy, halo, NO2; R2, R2' = H, C1-4 alkyl; X = N or C; when X = N: R3 = H or C1-4 alkyl, or does not exist; R4 = H or C1-6 alkyl, C3-7 cycloalkyl, (un)substituted C3-7 heterocycloalkyl, (un)substituted (CH2)p-heteroaryl, heteroarylcarbonyl, (halo)phenylcarbonyl, C1-6 alkylcarbonyl, (CH2)pCOOR, (un)substituted phenylsulfonyl, (un)substituted (CH2)pPh; and when X = C: R3 = H or NR5R6, N+(R5)3, NHCOR7, CONHR5, COR7, NHCONH2, OH, or CH2OH; R4 = H, (un)substituted (CH2)pPh, (un)substituted (CH2)p-heteroaryl, or (CH2)tNR7R8 group; addnl. restrictions on R4; R5, R6 = H, C1-4 alkyl; R7, R8 = C1-4 alkyl or alkoxy; or R7R8 forms an (un)substituted (un)quaternized 5- to 7-membered ring; n = 1 or 2; m = 1 or 2; p = 0-4; t = 0-1; with 2 exclusions], and their stereoisomers and pharmaceutically acceptable salts are claimed. The invention compds. are useful in therapeutics for preventing or treating a wide variety of disorders wherein poly(ADP-ribose) polymerase (PARP) is involved. Over 90 invention compds., mostly imidazoquinolinone derivs., and some diazabenzazulenones derivs., are disclosed. For instance, 4H-imidazo[4,5,1-ij]quinoline-2,6(1H,5H)-dione was chlorinated with POCl3

to give 2-chloro-4,5-dihydroimidazo[4,5,1-ij]quinolin-6-one, which reacted 4-piperidinopiperidine in the presence of KF and 2,6-lutidine to give title compd. II. I were active against human recombinant PARP-1, and also PARP-2, at concns. of 5-500 nM in vitro.

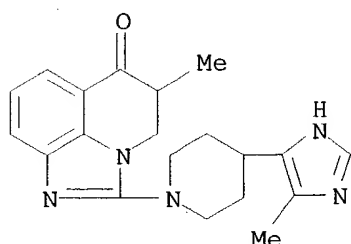
IT 398457-80-2P, 5-Methyl-2-[4-(5-methylimidazol-4-yl)piperidin-1-yl]-4,5-dihydroimidazo[4,5,1-ij]quinolin-6-one 398457-81-3P, 1-[4-(5-Methylimidazol-4-yl)piperidin-1-yl]-8,9-dihydro-7H-2,9a-diazabenz[cd]azulen-6-one

RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(drug candidate; prepn. of fused benzimidazole derivs. as PARP inhibitors)

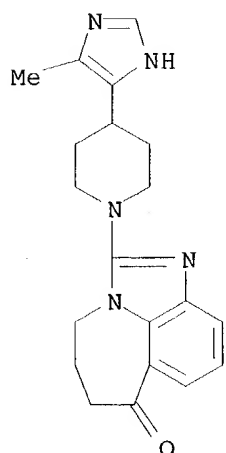
RN 398457-80-2 CAPLUS

CN 6H-Imidazo[4,5,1-ij]quinolin-6-one, 4,5-dihydro-5-methyl-2-[4-(5-methyl-1H-imidazol-4-yl)-1-piperidinyl]- (9CI) (CA INDEX NAME)



RN 398457-81-3 CAPLUS

CN Imidazo[4,5,1-jk][1]benzazepin-7(4H)-one, 5,6-dihydro-2-[4-(5-methyl-1H-imidazol-4-yl)-1-piperidinyl]- (9CI) (CA INDEX NAME)



REFERENCE COUNT: 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L10 ANSWER 8 OF 38 CAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 2001:283949 CAPLUS

DOCUMENT NUMBER: 134:311218

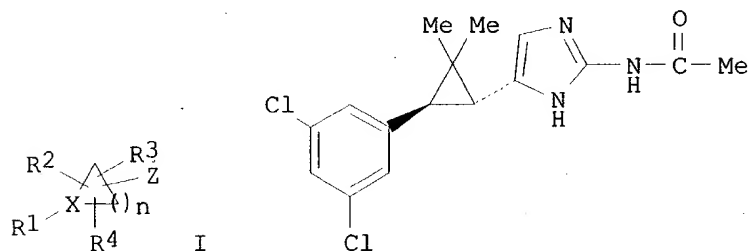
TITLE: Synthesis and use of heterocyclic sodium/proton exchange inhibitors

INVENTOR(S): Ahmad, Saleem; Wu, Shung C.; O'Neil, Steven V.; Ngu, Khehyong; Atwal, Karnail S.

PATENT ASSIGNEE(S): Bristol-Myers Squibb Company, USA

SOURCE: PCT Int. Appl., 221 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2001027107	A2	20010419	WO 2000-US27461	20001002
WO 2001027107	A3	20020124		
W:		AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM		
RW:		GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG		
EP 1224183	A2	20020724	EP 2000-968723	20001002
R:		AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL		
BR 2000014725	A	20030617	BR 2000-14725	20001002
JP 2003527331	T2	20030916	JP 2001-530325	20001002
NO 2002001717	A	20020610	NO 2002-1717	20020411
PRIORITY APPLN. INFO.:			US 1999-158755P	P 19991012
			WO 2000-US27461	W 20001002
OTHER SOURCE(S):		MARPAT 134:311218		
ED		Entered STN: 20 Apr 2001		
GI				



AB Compds. of formula I [wherein; n is 1-5; X is N or CR⁵, where R⁵ is H, halo, alkenyl, alkynyl, alkoxy, alkyl, aryl or heteroaryl; Z is a heteroaryl group; R¹ is H, alk(en)(yn)yl, alk(enyl)(ynyl)oxy, (aryl or alkyl)₃Si, cycloalk(en)yl, (aryl)amino, aryl(alkyl), cycloheteroaryl, etc.; R², R³ and R⁴ are any of the groups set out for R¹ and optionally substituted with 1 to 5 substituents which may be the same or different and when X is N, R¹ is preferably aryl or heteroaryl] are claimed. Several hundred examples are disclosed. Synthesis of II proceeds via cyclopropanation of the cinnamate derived from the olefination between 3,5-dichlorobenzaldehyde and t-butyl-diethylphosphonoacetate. The intermediate tert-Bu ester is converted to the corresponding .alpha.-chloro ketone and reacted with acetyl guanidine to provide II in a total of 5 steps. Compds. I are said to be sodium/proton exchange inhibitors (NHE). Pharmaceutical combinations are claimed using I and certain antihypertensive agents, .beta.-adrenergic agonists, hypolipidemic agents, antidiabetic agents, antiobesity agents, etc. Compds. I are useful as antianginal and cardioprotective agents and provide a method for preventing or treating angina pectoris, cardiac dysfunction, myocardial

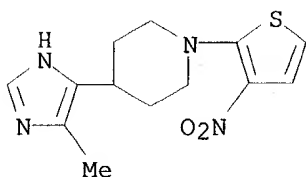
necrosis, and arrhythmia.

IT 335062-12-9P 335062-43-6P 335062-57-2P

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); RCT (Reactant); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent); USES (Uses)
(synthesis and use of heterocyclic sodium/proton exchange inhibitors)

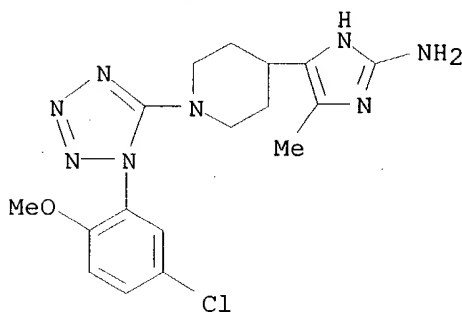
RN 335062-12-9 CAPLUS

CN Piperidine, 4-(5-methyl-1H-imidazol-4-yl)-1-(3-nitro-2-thienyl)- (9CI)
(CA INDEX NAME)



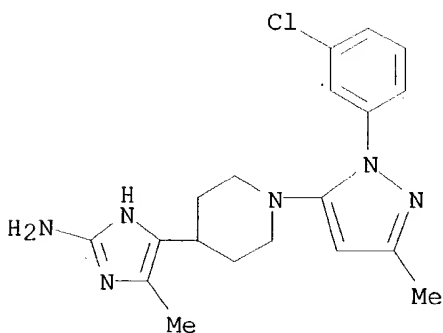
RN 335062-43-6 CAPLUS

CN 1H-Imidazol-2-amine, 4-[1-[1-(5-chloro-2-methoxyphenyl)-1H-tetrazol-5-yl]-4-piperidinyl]-5-methyl- (9CI) (CA INDEX NAME)



RN 335062-57-2 CAPLUS

CN 1H-Imidazol-2-amine, 4-[1-[1-(3-chlorophenyl)-3-methyl-1H-pyrazol-5-yl]-4-piperidinyl]-5-methyl- (9CI) (CA INDEX NAME)



IT 146365-55-1P 335062-07-2P 335062-09-4P

335062-10-7P 335062-11-8P 335062-13-0P

335062-26-5P 335062-27-6P 335062-28-7P

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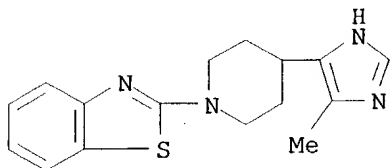
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335062-46-9P 335062-47-0P 335062-48-1P
335062-49-2P 335062-50-5P 335062-51-6P
335062-52-7P 335062-53-8P 335062-54-9P
335062-55-0P 335062-56-1P 335062-58-3P
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335064-33-0P 335064-34-1P 335064-35-2P
335065-05-9P 335065-06-0P 335065-07-1P
335065-08-2P

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(synthesis and use of heterocyclic sodium/proton exchange inhibitors)

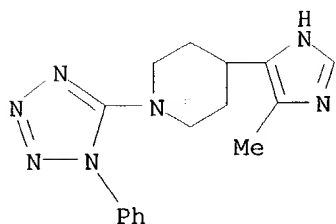
RN 146365-55-1 CAPLUS

CN Benzothiazole, 2-[4-(5-methyl-1H-imidazol-4-yl)-1-piperidinyl]- (9CI) (CA INDEX NAME)



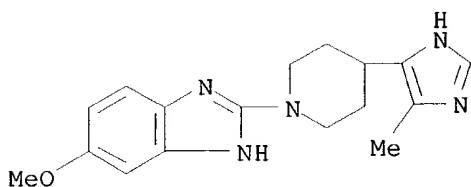
RN 335062-07-2 CAPLUS

CN Piperidine, 4-(5-methyl-1H-imidazol-4-yl)-1-(1-phenyl-1H-tetrazol-5-yl)- (9CI) (CA INDEX NAME)



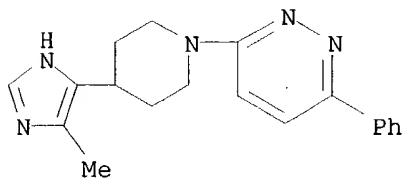
RN 335062-09-4 CAPLUS

CN 1H-Benzimidazole, 5-methoxy-2-[4-(5-methyl-1H-imidazol-4-yl)-1-piperidinyl]- (9CI) (CA INDEX NAME)



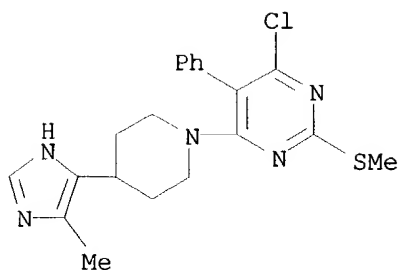
RN 335062-10-7 CAPLUS

CN Pyridazine, 3-[4-(5-methyl-1H-imidazol-4-yl)-1-piperidinyl]-6-phenyl- (9CI) (CA INDEX NAME)



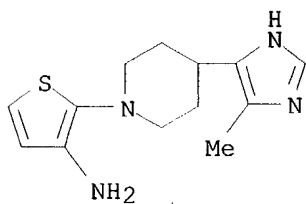
RN 335062-11-8 CAPLUS

CN Pyrimidine, 4-chloro-6-[4-(5-methyl-1H-imidazol-4-yl)-1-piperidinyl]-2-(methylthio)-5-phenyl- (9CI) (CA INDEX NAME)



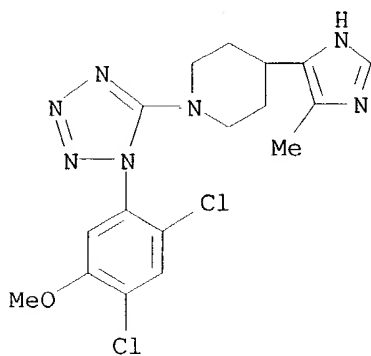
RN 335062-13-0 CAPLUS

CN 3-Thiophenamine, 2-[4-(5-methyl-1H-imidazol-4-yl)-1-piperidinyl]- (9CI)
(CA INDEX NAME)



RN 335062-26-5 CAPLUS

CN Piperidine, 1-[1-(2,4-dichloro-5-methoxyphenyl)-1H-tetrazol-5-yl]-4-(5-methyl-1H-imidazol-4-yl)- (9CI) (CA INDEX NAME)



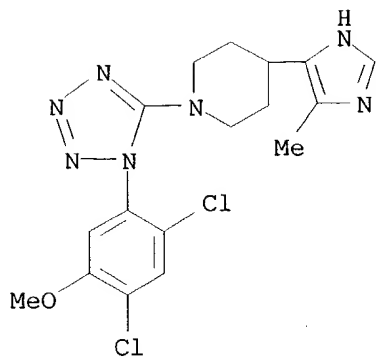
RN 335062-27-6 CAPLUS

CN Piperidine, 1-[1-(2,4-dichloro-5-methoxyphenyl)-1H-tetrazol-5-yl]-4-(5-methyl-1H-imidazol-4-yl)-, mono(trifluoroacetate) (9CI) (CA INDEX NAME)

CM 1

CRN 335062-26-5

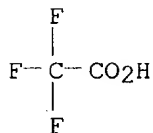
CMF C17 H19 Cl2 N7 O



CM 2

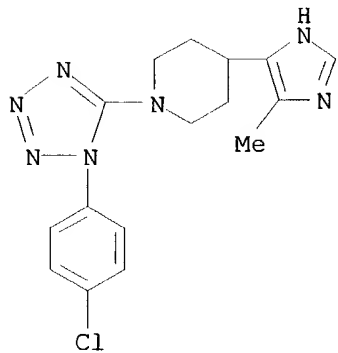
CRN 76-05-1

CMF C2 H F3 O2



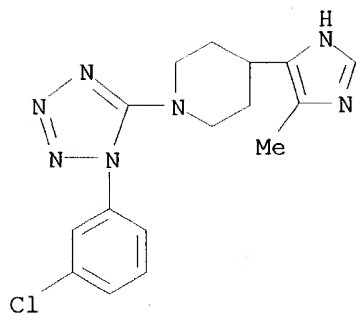
RN 335062-28-7 CAPLUS

CN Piperidine, 1-[1-(4-chlorophenyl)-1H-tetrazol-5-yl]-4-(5-methyl-1H-imidazol-4-yl)- (9CI) (CA INDEX NAME)



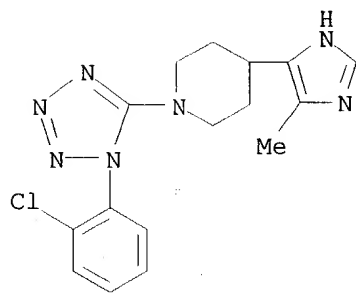
RN 335062-29-8 CAPLUS

CN Piperidine, 1-[1-(3-chlorophenyl)-1H-tetrazol-5-yl]-4-(5-methyl-1H-imidazol-4-yl)- (9CI) (CA INDEX NAME)



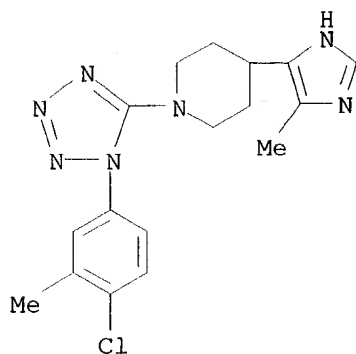
RN 335062-30-1 CAPLUS

CN Piperidine, 1-[1-(2-chlorophenyl)-1H-tetrazol-5-yl]-4-(5-methyl-1H-imidazol-4-yl)- (9CI) (CA INDEX NAME)



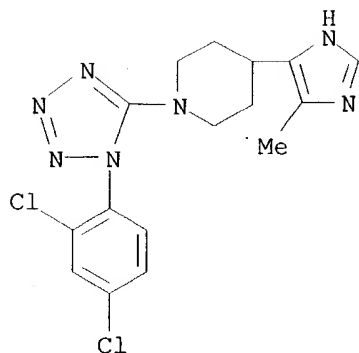
RN 335062-31-2 CAPLUS

CN Piperidine, 1-[1-(4-chloro-3-methylphenyl)-1H-tetrazol-5-yl]-4-(5-methyl-1H-imidazol-4-yl)- (9CI) (CA INDEX NAME)



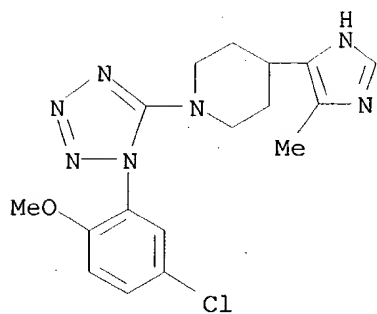
RN 335062-32-3 CAPLUS

CN Piperidine, 1-[1-(2,4-dichlorophenyl)-1H-tetrazol-5-yl]-4-(5-methyl-1H-imidazol-4-yl)- (9CI) (CA INDEX NAME)



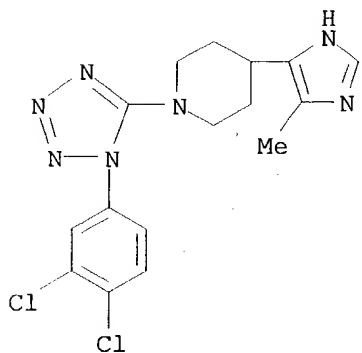
RN 335062-33-4 CAPLUS

CN Piperidine, 1-[1-(5-chloro-2-methoxyphenyl)-1H-tetrazol-5-yl]-4-(5-methyl-1H-imidazol-4-yl)- (9CI) (CA INDEX NAME)



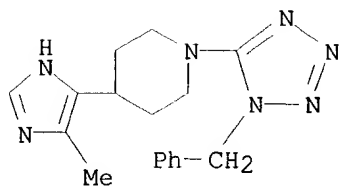
RN 335062-34-5 CAPLUS

CN Piperidine, 1-[1-(3,4-dichlorophenyl)-1H-tetrazol-5-yl]-4-(5-methyl-1H-imidazol-4-yl)- (9CI) (CA INDEX NAME)



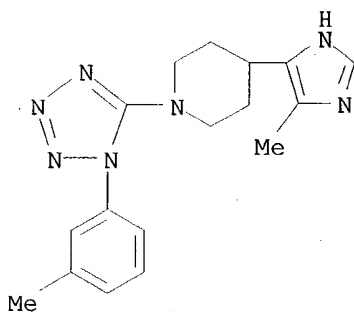
RN 335062-35-6 CAPLUS

CN Piperidine, 4-(5-methyl-1H-imidazol-4-yl)-1-[1-(phenylmethyl)-1H-tetrazol-5-yl]- (9CI) (CA INDEX NAME)



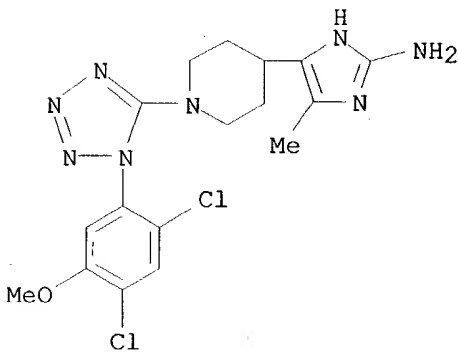
RN 335062-36-7 CAPLUS

CN Piperidine, 4-(5-methyl-1H-imidazol-4-yl)-1-[1-(3-methylphenyl)-1H-tetrazol-5-yl]- (9CI) (CA INDEX NAME)



RN 335062-37-8 CAPLUS

CN 1H-Imidazol-2-amine, 4-[1-[1-(2,4-dichloro-5-methoxyphenyl)-1H-tetrazol-5-yl]-4-piperidiny]-5-methyl- (9CI) (CA INDEX NAME)



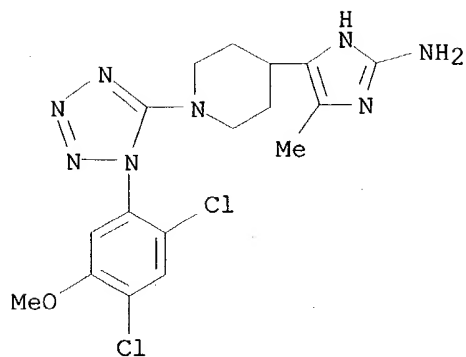
RN 335062-38-9 CAPLUS

CN 1H-Imidazol-2-amine, 4-[1-[1-(2,4-dichloro-5-methoxyphenyl)-1H-tetrazol-5-yl]-4-piperidiny]-5-methyl-, bis(trifluoroacetate) (9CI) (CA INDEX NAME)

CM 1

CRN 335062-37-8

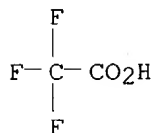
CMF C17 H20 Cl2 N8 O



CM 2

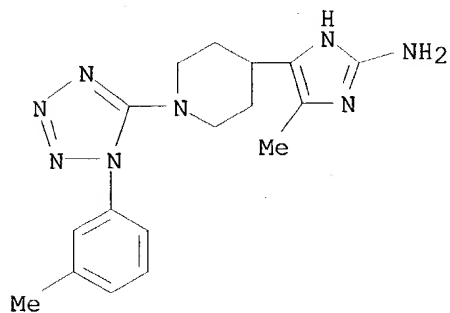
CRN 76-05-1

CMF C2 H F3 O2



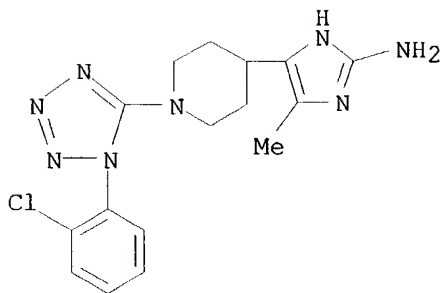
RN 335062-39-0 CAPLUS

CN 1H-Imidazol-2-amine, 4-methyl-5-[1-[1-(3-methylphenyl)-1H-tetrazol-5-yl]-4-piperidinyl]- (9CI) (CA INDEX NAME)



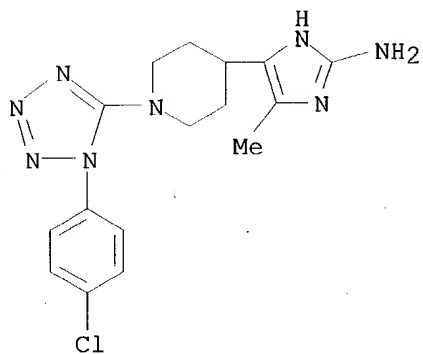
RN 335062-40-3 CAPLUS

CN 1H-Imidazol-2-amine, 4-[1-[1-(2-chlorophenyl)-1H-tetrazol-5-yl]-4-piperidinyl]-5-methyl- (9CI) (CA INDEX NAME)



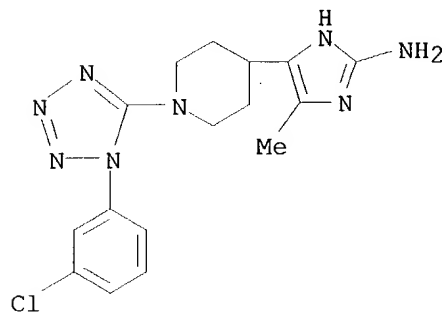
RN 335062-41-4 CAPLUS

CN 1H-Imidazol-2-amine, 4-[1-[1-(4-chlorophenyl)-1H-tetrazol-5-yl]-4-piperidinyl]-5-methyl- (9CI) (CA INDEX NAME)



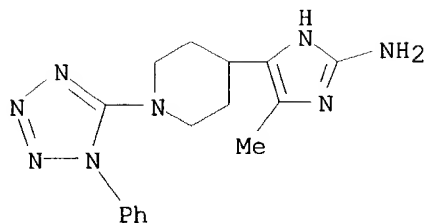
RN 335062-42-5 CAPLUS

CN 1H-Imidazol-2-amine, 4-[1-[1-(3-chlorophenyl)-1H-tetrazol-5-yl]-4-piperidinyl]-5-methyl- (9CI) (CA INDEX NAME)



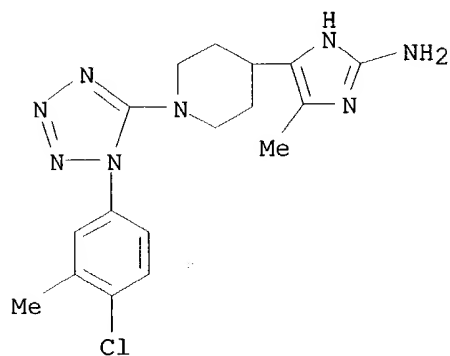
RN 335062-44-7 CAPLUS

CN 1H-Imidazol-2-amine, 4-methyl-5-[1-(1-phenyl-1H-tetrazol-5-yl)-4-piperidinyl]- (9CI) (CA INDEX NAME)



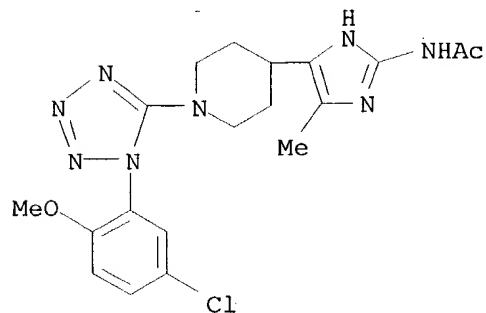
RN 335062-46-9 CAPLUS

CN 1H-Imidazol-2-amine, 4-[1-[1-(4-chloro-3-methylphenyl)-1H-tetrazol-5-yl]-4-piperidinyl]-5-methyl- (9CI) (CA INDEX NAME)



RN 335062-47-0 CAPLUS

CN Acetamide, N-[4-[1-[1-(5-chloro-2-methoxyphenyl)-1H-tetrazol-5-yl]-4-piperidinyl]-5-methyl-1H-imidazol-2-yl]- (9CI) (CA INDEX NAME)



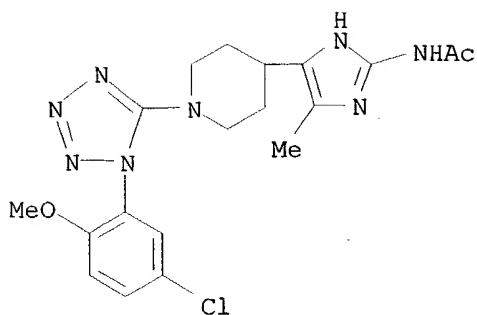
RN 335062-48-1 CAPLUS

CN Acetamide, N-[4-[1-[1-(5-chloro-2-methoxyphenyl)-1H-tetrazol-5-yl]-4-piperidinyl]-5-methyl-1H-imidazol-2-yl]-, bis(trifluoroacetate) (9CI) (CA INDEX NAME)

CM 1

CRN 335062-47-0

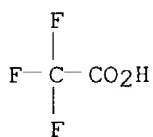
CMF C19 H23 Cl N8 O2



CM 2

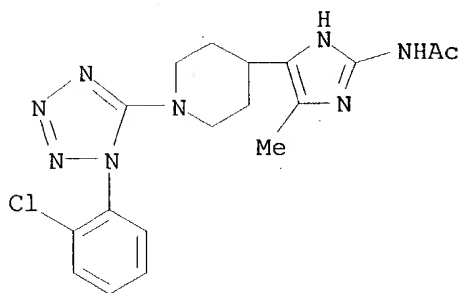
CRN 76-05-1

CMF C2 H F3 O2



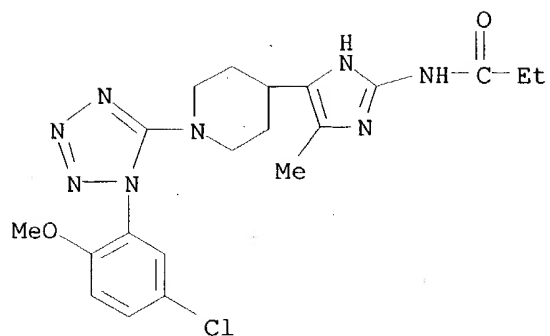
RN 335062-49-2 CAPLUS

CN Acetamide, N-[4-[1-[1-(2-chlorophenyl)-1H-tetrazol-5-yl]-4-piperidinyl]-5-methyl-1H-imidazol-2-yl]- (9CI) (CA INDEX NAME)



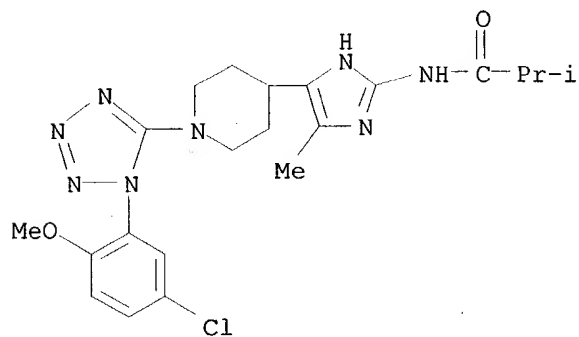
RN 335062-50-5 CAPLUS

CN Propanamide, N-[4-[1-[1-(5-chloro-2-methoxyphenyl)-1H-tetrazol-5-yl]-4-piperidinyl]-5-methyl-1H-imidazol-2-yl]- (9CI) (CA INDEX NAME)



RN 335062-51-6 CAPLUS

CN Propanamide, N-[4-[1-[1-(5-chloro-2-methoxyphenyl)-1H-tetrazol-5-yl]-4-piperidinyl]-5-methyl-1H-imidazol-2-yl]-2-methyl- (9CI) (CA INDEX NAME)



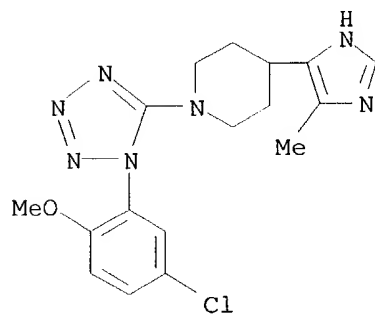
RN 335062-52-7 CAPLUS

CN Piperidine, 1-[1-(5-chloro-2-methoxyphenyl)-1H-tetrazol-5-yl]-4-(5-methyl-1H-imidazol-4-yl)-, trifluoroacetate (9CI) (CA INDEX NAME)

CM 1

CRN 335062-33-4

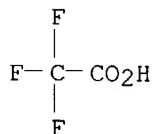
CMF C17 H20 Cl N7 O



CM 2

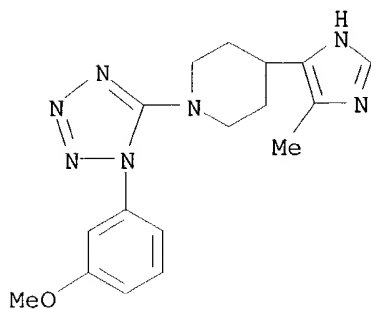
CRN 76-05-1

CMF C2 H F3 O2



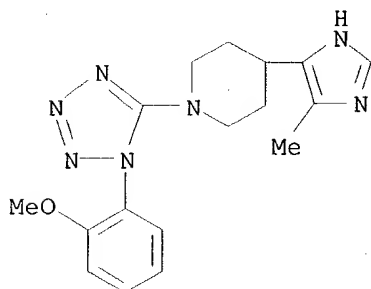
RN 335062-53-8 CAPLUS

CN Piperidine, 1-[1-(3-methoxyphenyl)-1H-tetrazol-5-yl]-4-(5-methyl-1H-imidazol-4-yl)- (9CI) (CA INDEX NAME)



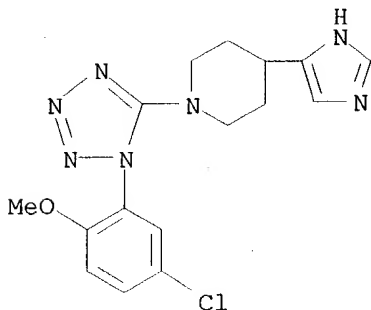
RN 335062-54-9 CAPLUS

CN Piperidine, 1-[1-(2-methoxyphenyl)-1H-tetrazol-5-yl]-4-(5-methyl-1H-imidazol-4-yl)- (9CI) (CA INDEX NAME)



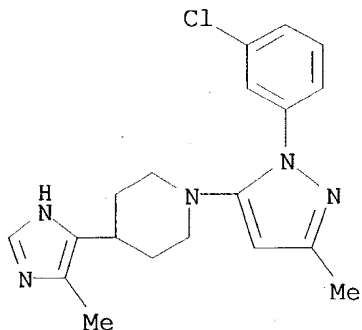
RN 335062-55-0 CAPLUS

CN Piperidine, 1-[1-(5-chloro-2-methoxyphenyl)-1H-tetrazol-5-yl]-4-(1H-imidazol-4-yl)- (9CI) (CA INDEX NAME)



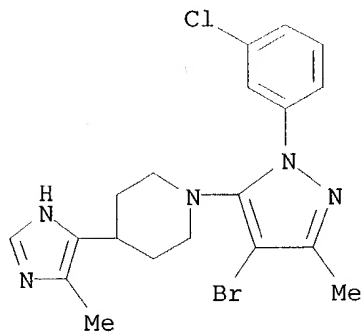
RN 335062-56-1 CAPLUS

CN Piperidine, 1-[1-(3-chlorophenyl)-3-methyl-1H-pyrazol-5-yl]-4-(5-methyl-1H-imidazol-4-yl)- (9CI) (CA INDEX NAME)



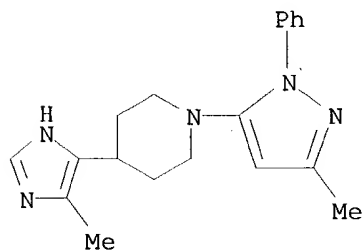
RN 335062-58-3 CAPLUS

CN Piperidine, 1-[4-bromo-1-(3-chlorophenyl)-3-methyl-1H-pyrazol-5-yl]-4-(5-methyl-1H-imidazol-4-yl)- (9CI) (CA INDEX NAME)



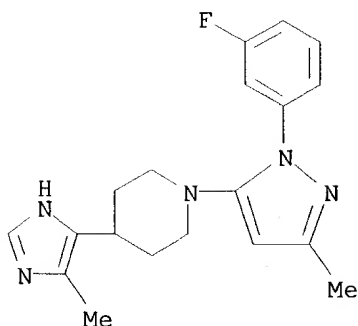
RN 335062-59-4 CAPLUS

CN Piperidine, 4-(5-methyl-1H-imidazol-4-yl)-1-(3-methyl-1-phenyl-1H-pyrazol-5-yl)- (9CI) (CA INDEX NAME)



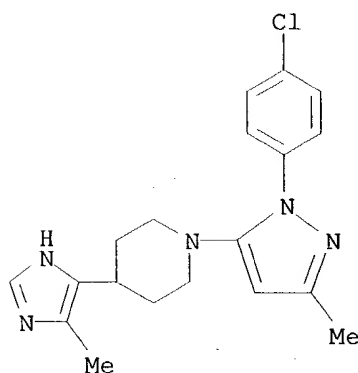
RN 335062-60-7 CAPLUS

CN Piperidine, 1-[1-(3-fluorophenyl)-3-methyl-1H-pyrazol-5-yl]-4-(5-methyl-1H-imidazol-4-yl)- (9CI) (CA INDEX NAME)



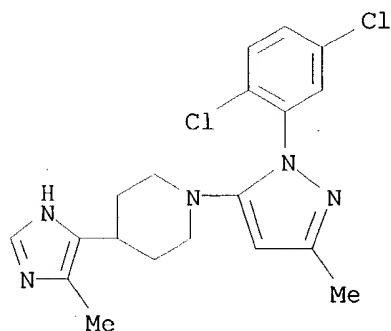
RN 335062-61-8 CAPLUS

CN Piperidine, 1-[1-(4-chlorophenyl)-3-methyl-1H-pyrazol-5-yl]-4-(5-methyl-1H-imidazol-4-yl)- (9CI) (CA INDEX NAME)



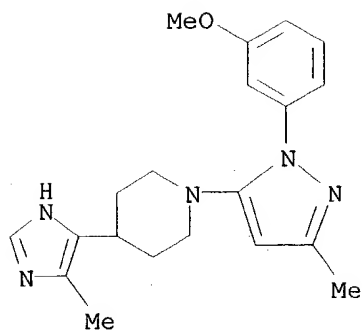
RN 335062-62-9 CAPLUS

CN Piperidine, 1-[1-(2,5-dichlorophenyl)-3-methyl-1H-pyrazol-5-yl]-4-(5-methyl-1H-imidazol-4-yl)- (9CI) (CA INDEX NAME)



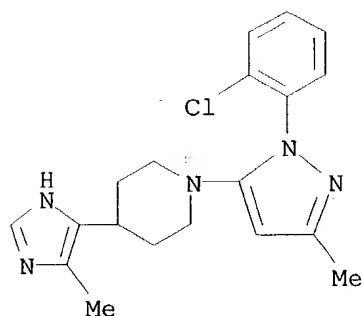
RN 335062-63-0 CAPLUS

CN Piperidine, 1-[1-(3-methoxyphenyl)-3-methyl-1H-pyrazol-5-yl]-4-(5-methyl-1H-imidazol-4-yl)- (9CI) (CA INDEX NAME)



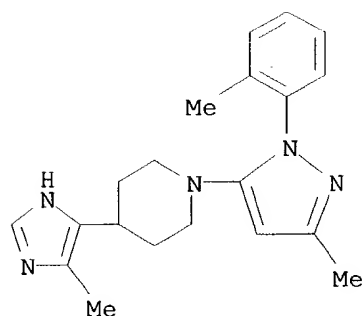
RN 335062-64-1 CAPLUS

CN Piperidine, 1-[1-(2-chlorophenyl)-3-methyl-1H-pyrazol-5-yl]-4-(5-methyl-1H-imidazol-4-yl)- (9CI) (CA INDEX NAME)



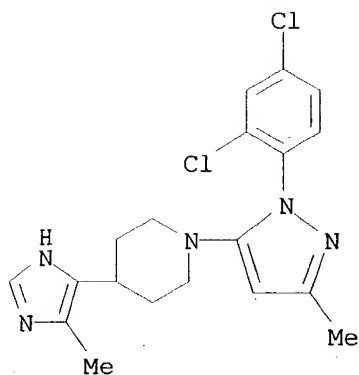
RN 335062-65-2 CAPLUS

CN Piperidine, 4-(5-methyl-1H-imidazol-4-yl)-1-[3-methyl-1-(2-methylphenyl)-1H-pyrazol-5-yl]- (9CI) (CA INDEX NAME)



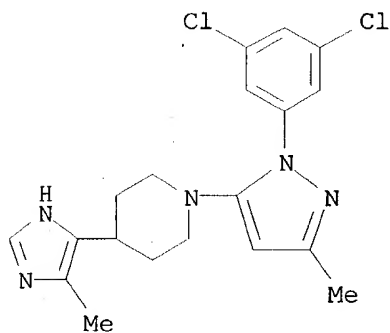
RN 335062-66-3 CAPLUS

CN Piperidine, 1-[1-(2,4-dichlorophenyl)-3-methyl-1H-pyrazol-5-yl]-4-(5-methyl-1H-imidazol-4-yl)- (9CI) (CA INDEX NAME)



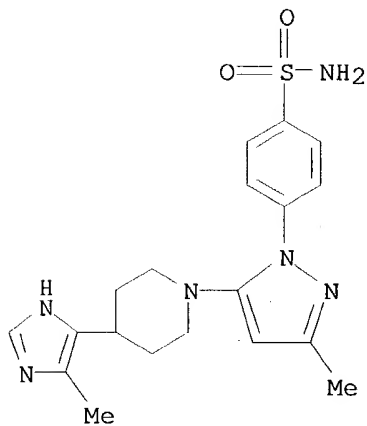
RN 335062-67-4 CAPLUS

CN Piperidine, 1-[1-(3,5-dichlorophenyl)-3-methyl-1H-pyrazol-5-yl]-4-(5-methyl-1H-imidazol-4-yl)- (9CI) (CA INDEX NAME)



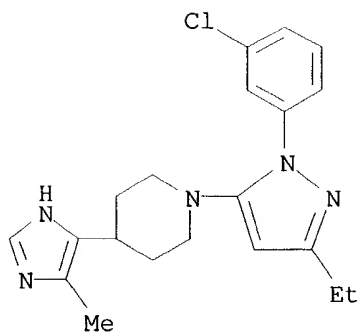
RN 335062-68-5 CAPLUS

CN Benzenesulfonamide, 4-[3-methyl-5-[4-(5-methyl-1H-imidazol-4-yl)-1-piperidinyl]-1H-pyrazol-1-yl]- (9CI) (CA INDEX NAME)



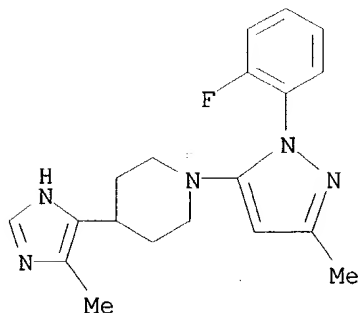
RN 335062-69-6 CAPLUS

CN Piperidine, 1-[1-(3-chlorophenyl)-3-ethyl-1H-pyrazol-5-yl]-4-(5-methyl-1H-imidazol-4-yl)- (9CI) (CA INDEX NAME)



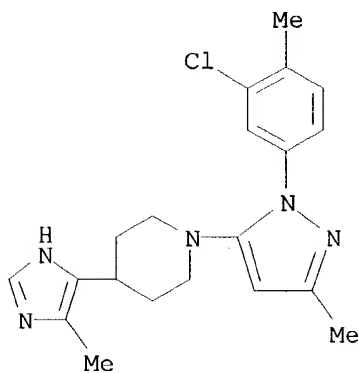
RN 335062-71-0 CAPLUS

CN Piperidine, 1-[1-(2-fluorophenyl)-3-methyl-1H-pyrazol-5-yl]-4-(5-methyl-1H-imidazol-4-yl)- (9CI) (CA INDEX NAME)



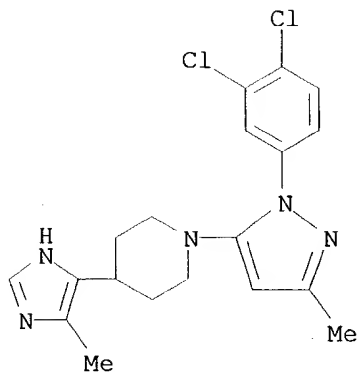
RN 335062-72-1 CAPLUS

CN Piperidine, 1-[1-(3-chloro-4-methylphenyl)-3-methyl-1H-pyrazol-5-yl]-4-(5-methyl-1H-imidazol-4-yl)- (9CI) (CA INDEX NAME)



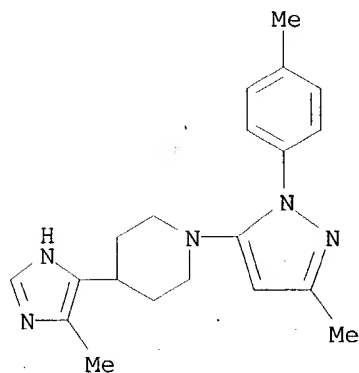
RN 335062-73-2 CAPLUS

CN Piperidine, 1-[1-(3,4-dichlorophenyl)-3-methyl-1H-pyrazol-5-yl]-4-(5-methyl-1H-imidazol-4-yl)- (9CI) (CA INDEX NAME)



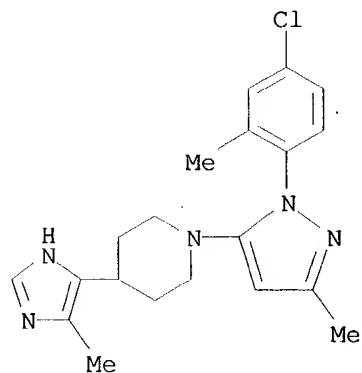
RN 335062-74-3 CAPLUS

CN Piperidine, 4-(5-methyl-1H-imidazol-4-yl)-1-[3-methyl-1-(4-methylphenyl)-1H-pyrazol-5-yl]- (9CI) (CA INDEX NAME)



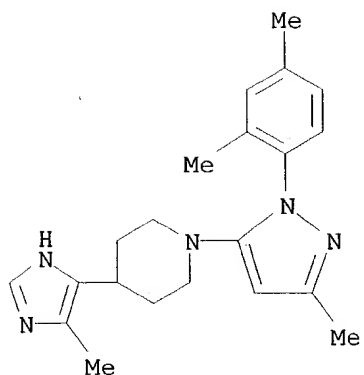
RN 335062-75-4 CAPLUS

CN Piperidine, 1-[1-(4-chloro-2-methylphenyl)-3-methyl-1H-pyrazol-5-yl]-4-(5-methyl-1H-imidazol-4-yl)- (9CI) (CA INDEX NAME)



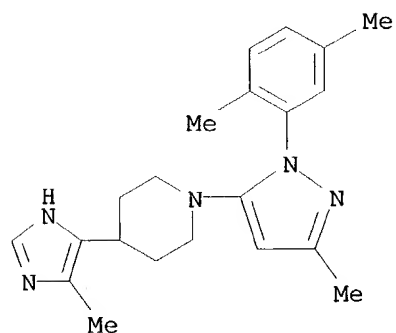
RN 335062-76-5 CAPLUS

CN Piperidine, 1-[1-(2,4-dimethylphenyl)-3-methyl-1H-pyrazol-5-yl]-4-(5-methyl-1H-imidazol-4-yl)- (9CI) (CA INDEX NAME)



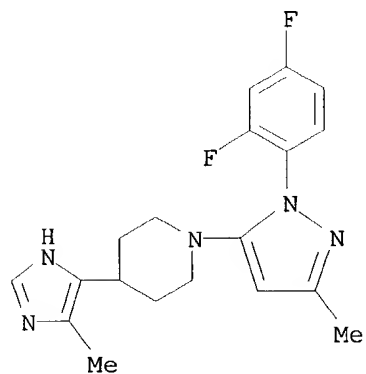
RN 335062-77-6 CAPLUS

CN Piperidine, 1-[1-(2,5-dimethylphenyl)-3-methyl-1H-pyrazol-5-yl]-4-(5-methyl-1H-imidazol-4-yl)- (9CI) (CA INDEX NAME)



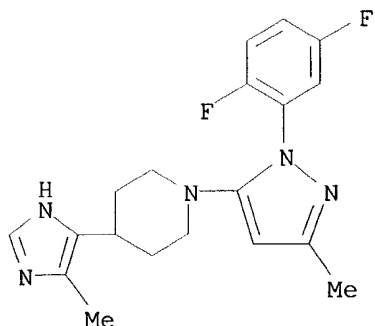
RN 335062-78-7 CAPLUS

CN Piperidine, 1-[1-(2,4-difluorophenyl)-3-methyl-1H-pyrazol-5-yl]-4-(5-methyl-1H-imidazol-4-yl)- (9CI) (CA INDEX NAME)



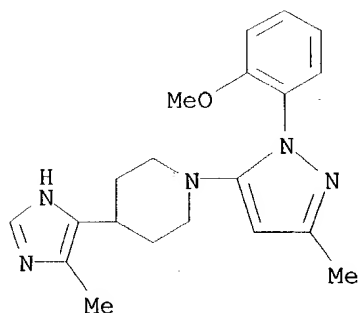
RN 335062-79-8 CAPLUS

CN Piperidine, 1-[1-(2,5-difluorophenyl)-3-methyl-1H-pyrazol-5-yl]-4-(5-methyl-1H-imidazol-4-yl)- (9CI) (CA INDEX NAME)



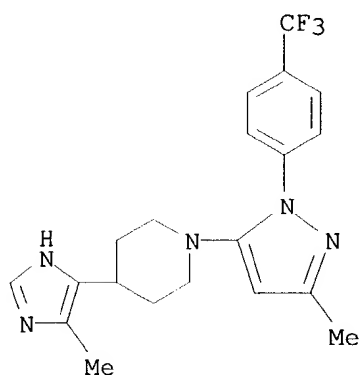
RN 335062-80-1 CAPLUS

CN Piperidine, 1-[1-(2-methoxyphenyl)-3-methyl-1H-pyrazol-5-yl]-4-(5-methyl-1H-imidazol-4-yl)- (9CI) (CA INDEX NAME)



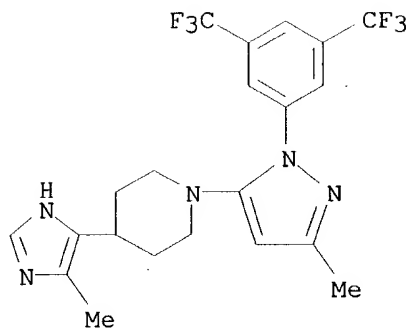
RN 335062-81-2 CAPLUS

CN Piperidine, 4-(5-methyl-1H-imidazol-4-yl)-1-[3-methyl-1-[4-(trifluoromethyl)phenyl]-1H-pyrazol-5-yl]- (9CI) (CA INDEX NAME)



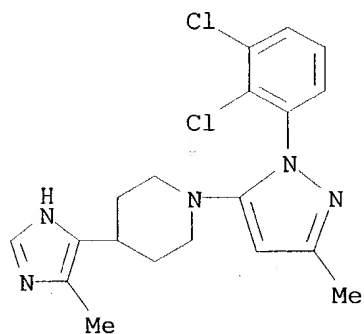
RN 335062-82-3 CAPLUS

CN Piperidine, 1-[1-[3,5-bis(trifluoromethyl)phenyl]-3-methyl-1H-pyrazol-5-yl]-4-(5-methyl-1H-imidazol-4-yl)- (9CI) (CA INDEX NAME)



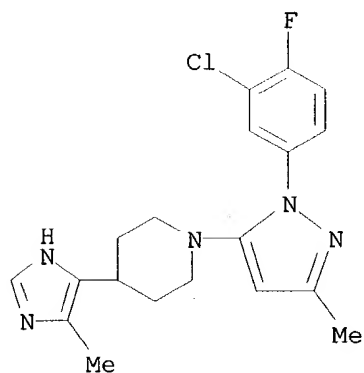
RN 335062-83-4 CAPLUS

CN Piperidine, 1-[1-(2,3-dichlorophenyl)-3-methyl-1H-pyrazol-5-yl]-4-(5-methyl-1H-imidazol-4-yl)- (9CI) (CA INDEX NAME)



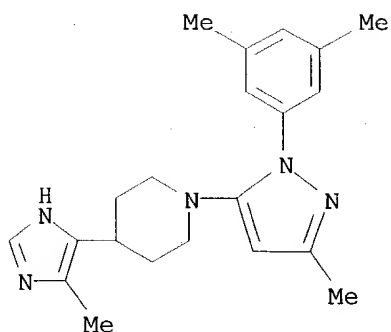
RN 335062-84-5 CAPLUS

CN Piperidine, 1-[1-(3-chloro-4-fluorophenyl)-3-methyl-1H-pyrazol-5-yl]-4-(5-methyl-1H-imidazol-4-yl)- (9CI) (CA INDEX NAME)



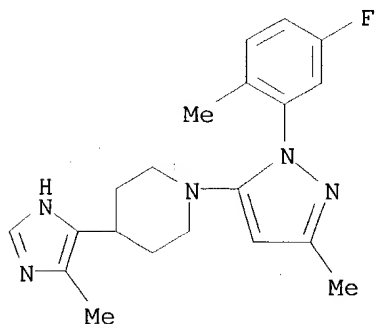
RN 335062-85-6 CAPLUS

CN Piperidine, 1-[1-(3,5-dimethylphenyl)-3-methyl-1H-pyrazol-5-yl]-4-(5-methyl-1H-imidazol-4-yl)- (9CI) (CA INDEX NAME)



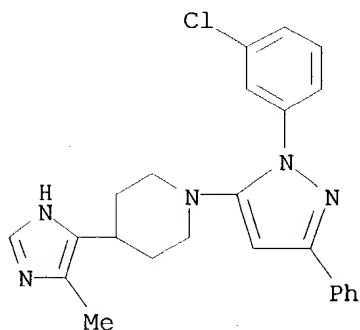
RN 335062-86-7 CAPLUS

CN Piperidine, 1-[1-(5-fluoro-2-methylphenyl)-3-methyl-1H-pyrazol-5-yl]-4-(5-methyl-1H-imidazol-4-yl)- (9CI) (CA INDEX NAME)



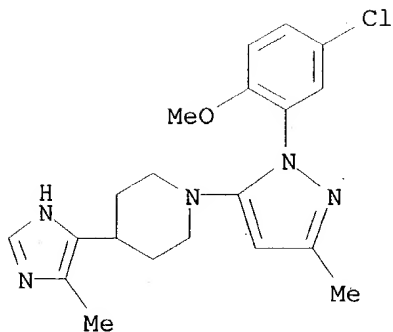
RN 335062-87-8 CAPLUS

CN Piperidine, 1-[1-(3-chlorophenyl)-3-phenyl-1H-pyrazol-5-yl]-4-(5-methyl-1H-imidazol-4-yl)- (9CI) (CA INDEX NAME)



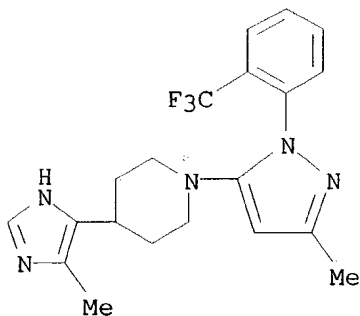
RN 335062-88-9 CAPLUS

CN Piperidine, 1-[1-(5-chloro-2-methoxyphenyl)-3-methyl-1H-pyrazol-5-yl]-4-(5-methyl-1H-imidazol-4-yl)- (9CI) (CA INDEX NAME)



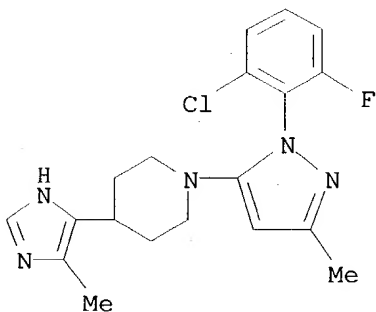
RN 335062-89-0 CAPLUS

CN Piperidine, 4-(5-methyl-1H-imidazol-4-yl)-1-[3-methyl-1-[2-(trifluoromethyl)phenyl]-1H-pyrazol-5-yl]- (9CI) (CA INDEX NAME)



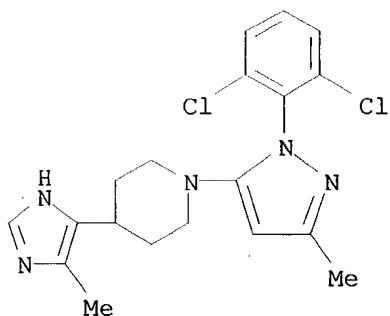
RN 335062-90-3 CAPLUS

CN Piperidine, 1-[1-(2-chloro-6-fluorophenyl)-3-methyl-1H-pyrazol-5-yl]-4-(5-methyl-1H-imidazol-4-yl)- (9CI) (CA INDEX NAME)



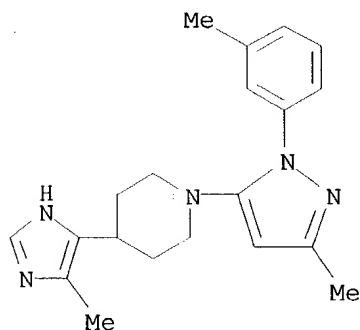
RN 335062-91-4 CAPLUS

CN Piperidine, 1-[1-(2,6-dichlorophenyl)-3-methyl-1H-pyrazol-5-yl]-4-(5-methyl-1H-imidazol-4-yl)- (9CI) (CA INDEX NAME)



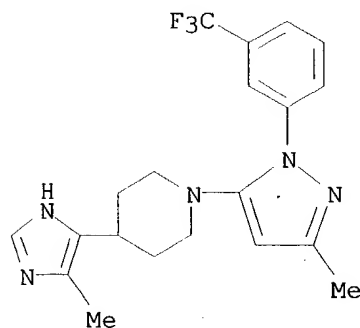
RN 335062-92-5 CAPLUS

CN Piperidine, 4-(5-methyl-1H-imidazol-4-yl)-1-[3-methyl-1-(3-methylphenyl)-1H-pyrazol-5-yl]- (9CI) (CA INDEX NAME)



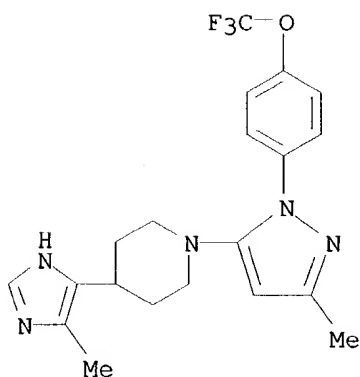
RN 335062-93-6 CAPLUS

CN Piperidine, 4-(5-methyl-1H-imidazol-4-yl)-1-[3-methyl-1-[3-(trifluoromethyl)phenyl]-1H-pyrazol-5-yl]- (9CI) (CA INDEX NAME)



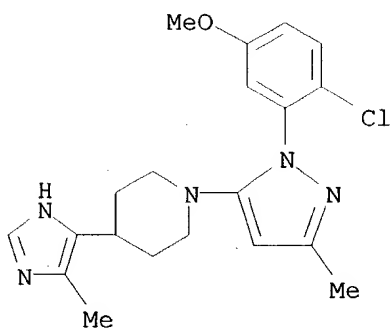
RN 335062-94-7 CAPLUS

CN Piperidine, 4-(5-methyl-1H-imidazol-4-yl)-1-[3-methyl-1-[4-(trifluoromethoxy)phenyl]-1H-pyrazol-5-yl]- (9CI) (CA INDEX NAME)



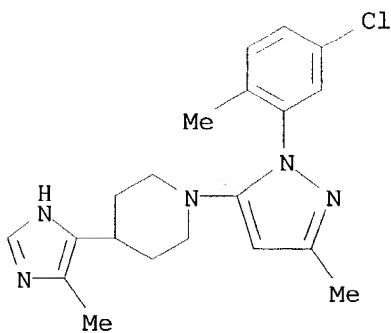
RN 335062-95-8 CAPLUS

CN Piperidine, 1-[1-(2-chloro-5-methoxyphenyl)-3-methyl-1H-pyrazol-5-yl]-4-(5-methyl-1H-imidazol-4-yl)- (9CI) (CA INDEX NAME)



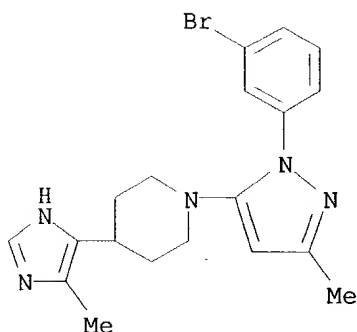
RN 335062-96-9 CAPLUS

CN Piperidine, 1-[1-(5-chloro-2-methylphenyl)-3-methyl-1H-pyrazol-5-yl]-4-(5-methyl-1H-imidazol-4-yl)- (9CI) (CA INDEX NAME)



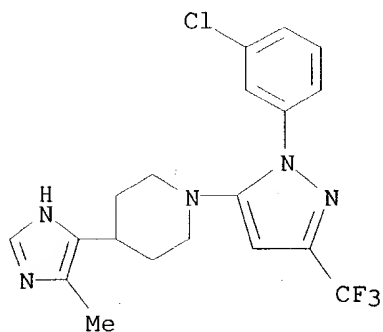
RN 335062-97-0 CAPLUS

CN Piperidine, 1-[1-(3-bromophenyl)-3-methyl-1H-pyrazol-5-yl]-4-(5-methyl-1H-imidazol-4-yl)- (9CI) (CA INDEX NAME)



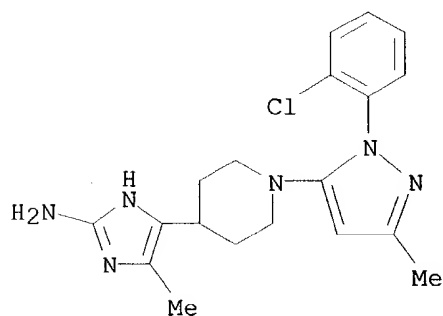
RN 335062-98-1 CAPLUS

CN Piperidine, 1-[1-(3-chlorophenyl)-3-(trifluoromethyl)-1H-pyrazol-5-yl]-4-(5-methyl-1H-imidazol-4-yl)- (9CI) (CA INDEX NAME)



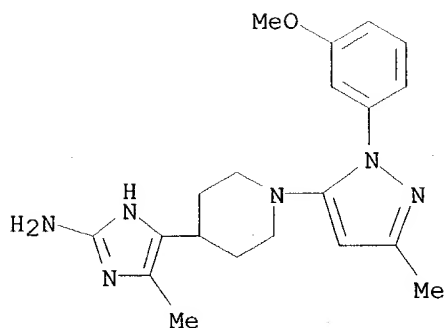
RN 335062-99-2 CAPLUS

CN 1H-Imidazol-2-amine, 4-[1-[1-(2-chlorophenyl)-3-methyl-1H-pyrazol-5-yl]-4-piperidinyl]-5-methyl- (9CI) (CA INDEX NAME)

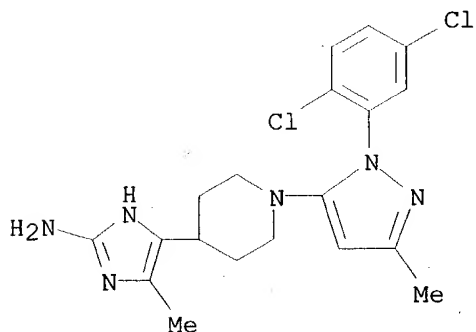


RN 335063-00-8 CAPLUS

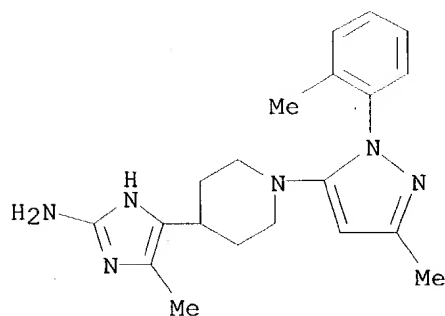
CN 1H-Imidazol-2-amine, 4-[1-[1-(3-methoxyphenyl)-3-methyl-1H-pyrazol-5-yl]-4-piperidinyl]-5-methyl- (9CI) (CA INDEX NAME)



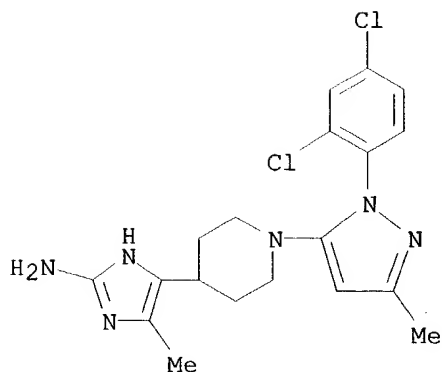
RN 335063-01-9 CAPLUS
CN 1H-Imidazol-2-amine, 4-[1-[1-(2,5-dichlorophenyl)-3-methyl-1H-pyrazol-5-yl]-4-piperidinyl]-5-methyl- (9CI) (CA INDEX NAME)



RN 335063-02-0 CAPLUS
CN 1H-Imidazol-2-amine, 4-methyl-5-[1-[3-methyl-1-(2-methylphenyl)-1H-pyrazol-5-yl]-4-piperidinyl]- (9CI) (CA INDEX NAME)

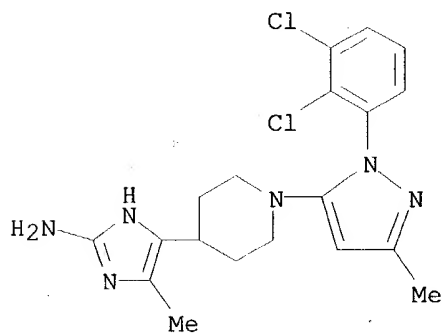


RN 335063-03-1 CAPLUS
CN 1H-Imidazol-2-amine, 4-[1-[1-(2,4-dichlorophenyl)-3-methyl-1H-pyrazol-5-yl]-4-piperidinyl]-5-methyl- (9CI) (CA INDEX NAME)



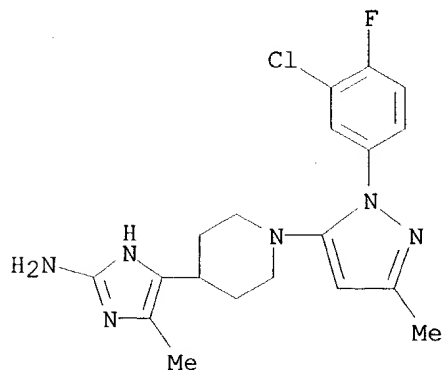
RN 335063-04-2 CAPLUS

CN 1H-Imidazol-2-amine, 4-[1-[1-(2,3-dichlorophenyl)-3-methyl-1H-pyrazol-5-yl]-4-piperidinyl]-5-methyl- (9CI) (CA INDEX NAME)



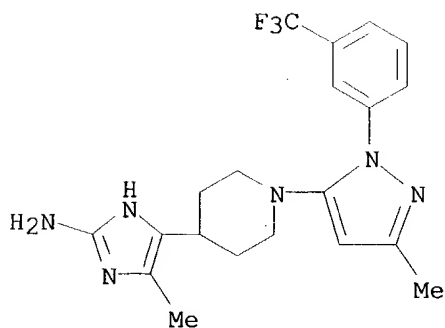
RN 335063-05-3 CAPLUS

CN 1H-Imidazol-2-amine, 4-[1-[1-(3-chloro-4-fluorophenyl)-3-methyl-1H-pyrazol-5-yl]-4-piperidinyl]-5-methyl- (9CI) (CA INDEX NAME)

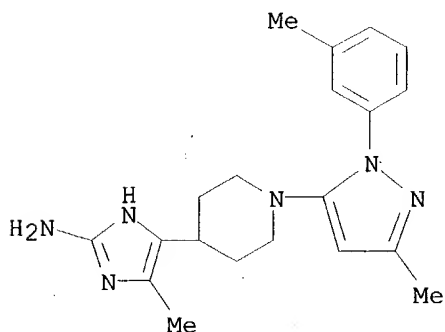


RN 335063-06-4 CAPLUS

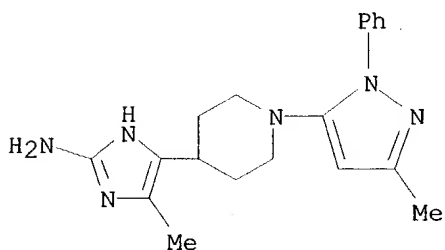
CN 1H-Imidazol-2-amine, 4-methyl-5-[1-[3-methyl-1-[3-(trifluoromethyl)phenyl]-1H-pyrazol-5-yl]-4-piperidinyl]- (9CI) (CA INDEX NAME)



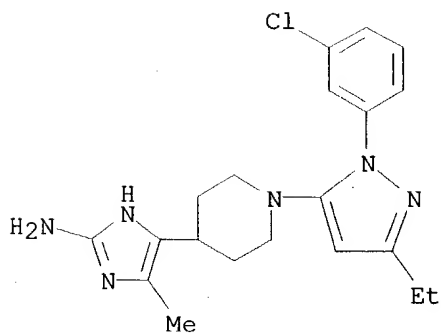
RN 335063-07-5 CAPLUS
CN 1H-Imidazol-2-amine, 4-methyl-5-[1-[3-methyl-1-(3-methylphenyl)-1H-pyrazol-5-yl]-4-piperidinyl]- (9CI) (CA INDEX NAME)



RN 335063-08-6 CAPLUS
CN 1H-Imidazol-2-amine, 4-methyl-5-[1-(3-methyl-1-phenyl-1H-pyrazol-5-yl)-4-piperidinyl]- (9CI) (CA INDEX NAME)

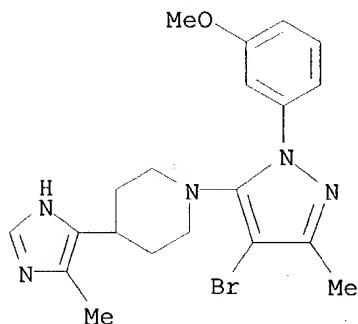


RN 335063-09-7 CAPLUS
CN 1H-Imidazol-2-amine, 4-[1-[1-(3-chlorophenyl)-3-ethyl-1H-pyrazol-5-yl]-4-piperidinyl]-5-methyl- (9CI) (CA INDEX NAME)



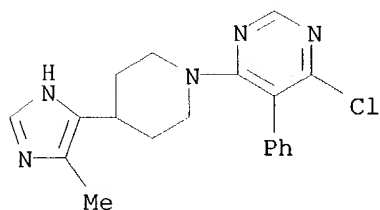
RN 335063-10-0 CAPLUS

CN Piperidine, 1-[4-bromo-1-(3-methoxyphenyl)-3-methyl-1H-pyrazol-5-yl]-4-(5-methyl-1H-imidazol-4-yl)- (9CI) (CA INDEX NAME)



RN 335063-11-1 CAPLUS

CN Pyrimidine, 4-chloro-6-[4-(5-methyl-1H-imidazol-4-yl)-1-piperidinyl]-5-phenyl- (9CI) (CA INDEX NAME)



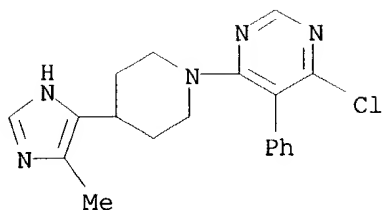
RN 335063-12-2 CAPLUS

CN Pyrimidine, 4-chloro-6-[4-(5-methyl-1H-imidazol-4-yl)-1-piperidinyl]-5-phenyl-, bis(trifluoroacetate) (9CI) (CA INDEX NAME)

CM 1

CRN 335063-11-1

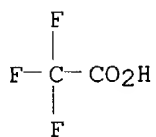
CMF C19 H20 Cl N5



CM 2

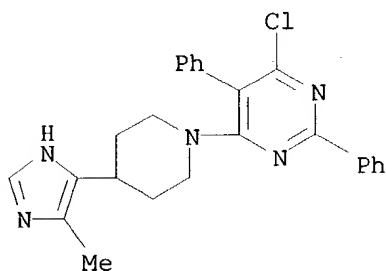
CRN 76-05-1

CMF C2 H F3 O2



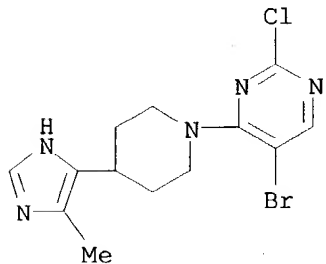
RN 335063-13-3 CAPLUS

CN Pyrimidine, 4-chloro-6-[4-(5-methyl-1H-imidazol-4-yl)-1-piperidinyl]-2,5-diphenyl- (9CI) (CA INDEX NAME)



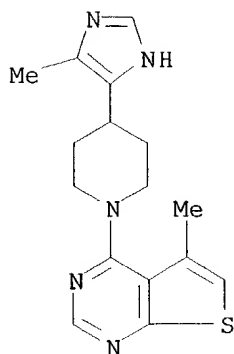
RN 335063-14-4 CAPLUS

CN Pyrimidine, 5-bromo-2-chloro-4-[4-(5-methyl-1H-imidazol-4-yl)-1-piperidinyl]- (9CI) (CA INDEX NAME)



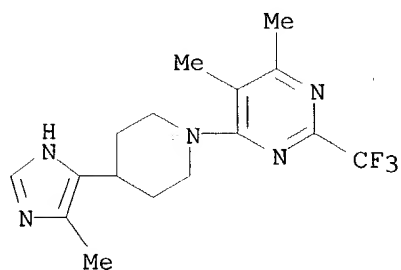
RN 335063-15-5 CAPLUS

CN Thieno[2,3-d]pyrimidine, 5-methyl-4-[4-(5-methyl-1H-imidazol-4-yl)-1-piperidinyl]- (9CI) (CA INDEX NAME)



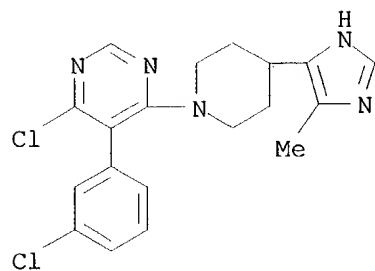
RN 335063-16-6 CAPLUS

CN Pyrimidine, 4,5-dimethyl-6-[4-(5-methyl-1H-imidazol-4-yl)-1-piperidinyl]-2-(trifluoromethyl)- (9CI) (CA INDEX NAME)



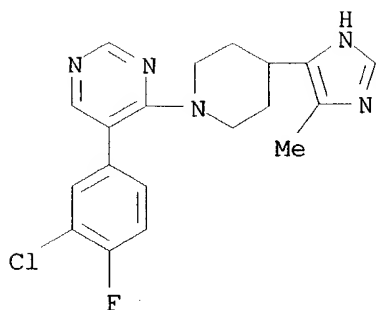
RN 335063-17-7 CAPLUS

CN Pyrimidine, 4-chloro-5-(3-chlorophenyl)-6-[4-(5-methyl-1H-imidazol-4-yl)-1-piperidinyl]- (9CI) (CA INDEX NAME)



RN 335063-18-8 CAPLUS

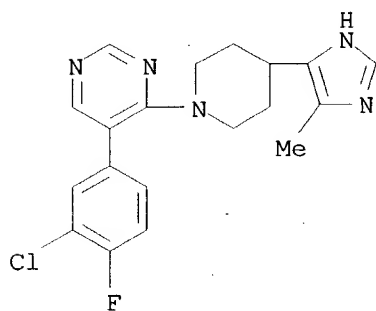
CN Pyrimidine, 5-(3-chloro-4-fluorophenyl)-4-[4-(5-methyl-1H-imidazol-4-yl)-1-piperidinyl]- (9CI) (CA INDEX NAME)



RN 335063-19-9 CAPLUS
 CN Pyrimidine, 5-(3-chloro-4-fluorophenyl)-4-[4-(5-methyl-1H-imidazol-4-yl)-1-piperidinyl]-, bis(trifluoroacetate) (9CI) (CA INDEX NAME)

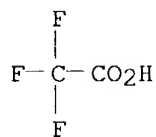
CM 1

CRN 335063-18-8
 CMF C19 H19 Cl F N5

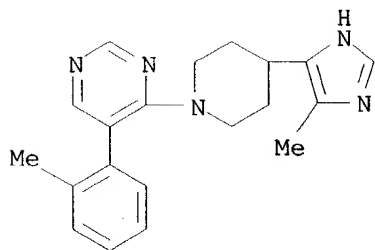


CM 2

CRN 76-05-1
 CMF C2 H F3 O2

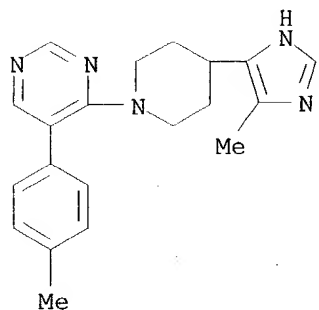


RN 335063-20-2 CAPLUS
 CN Pyrimidine, 4-[4-(5-methyl-1H-imidazol-4-yl)-1-piperidinyl]-5-(2-methylphenyl)- (9CI) (CA INDEX NAME)



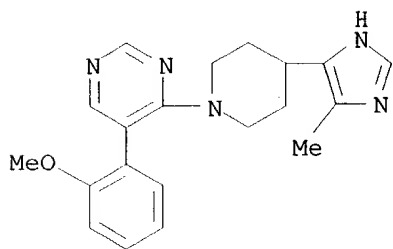
RN 335063-21-3 CAPLUS

CN Pyrimidine, 4-[4-(5-methyl-1H-imidazol-4-yl)-1-piperidinyl]-5-(4-methylphenyl)- (9CI) (CA INDEX NAME)



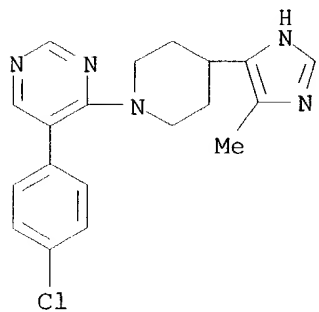
RN 335063-22-4 CAPLUS

CN Pyrimidine, 5-(2-methoxyphenyl)-4-[4-(5-methyl-1H-imidazol-4-yl)-1-piperidinyl]- (9CI) (CA INDEX NAME)

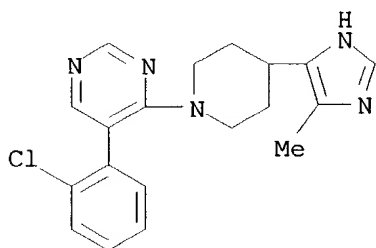


RN 335063-23-5 CAPLUS

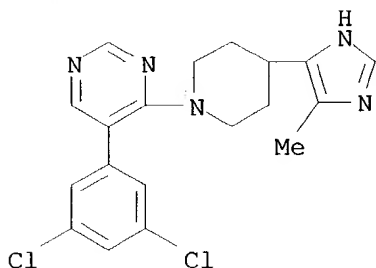
CN Pyrimidine, 5-(4-chlorophenyl)-4-[4-(5-methyl-1H-imidazol-4-yl)-1-piperidinyl]- (9CI) (CA INDEX NAME)



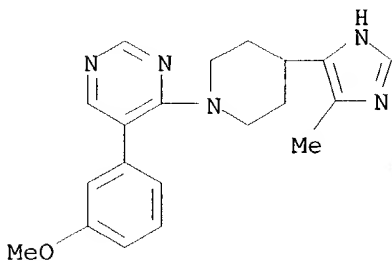
RN 335063-24-6 CAPLUS
CN Pyrimidine, 5-(2-chlorophenyl)-4-[4-(5-methyl-1H-imidazol-4-yl)-1-piperidinyl]- (9CI) (CA INDEX NAME)



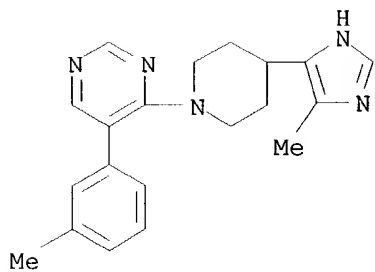
RN 335063-25-7 CAPLUS
CN Pyrimidine, 5-(3,5-dichlorophenyl)-4-[4-(5-methyl-1H-imidazol-4-yl)-1-piperidinyl]- (9CI) (CA INDEX NAME)



RN 335063-26-8 CAPLUS
CN Pyrimidine, 5-(3-methoxyphenyl)-4-[4-(5-methyl-1H-imidazol-4-yl)-1-piperidinyl]- (9CI) (CA INDEX NAME)

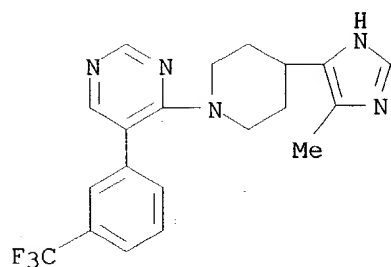


RN 335063-27-9 CAPLUS
CN Pyrimidine, 4-[4-(5-methyl-1H-imidazol-4-yl)-1-piperidinyl]-5-(3-methylphenyl)- (9CI) (CA INDEX NAME)



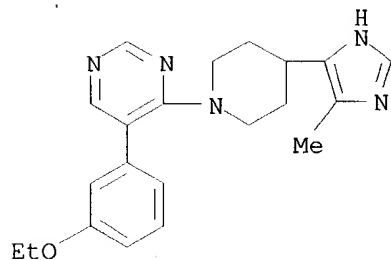
RN 335063-28-0 CAPLUS

CN Pyrimidine, 4-[4-(5-methyl-1H-imidazol-4-yl)-1-piperidinyl]-5-[3-(trifluoromethyl)phenyl]- (9CI) (CA INDEX NAME)



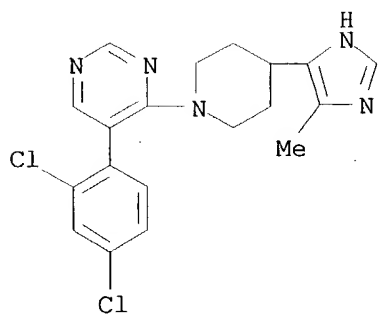
RN 335063-29-1 CAPLUS

CN Pyrimidine, 5-(3-ethoxyphenyl)-4-[4-(5-methyl-1H-imidazol-4-yl)-1-piperidinyl]- (9CI) (CA INDEX NAME)



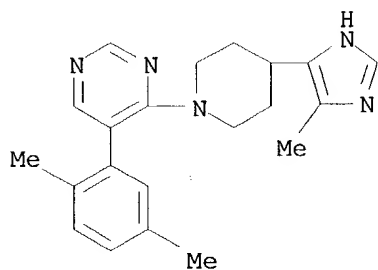
RN 335063-30-4 CAPLUS

CN Pyrimidine, 5-(2,4-dichlorophenyl)-4-[4-(5-methyl-1H-imidazol-4-yl)-1-piperidinyl]- (9CI) (CA INDEX NAME)



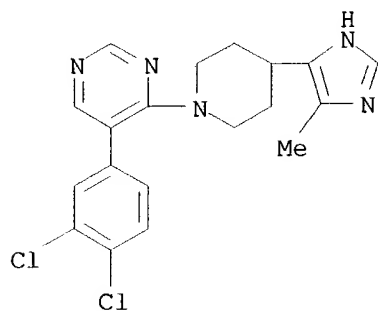
RN 335063-31-5 CAPLUS

CN Pyrimidine, 5-(2,5-dimethylphenyl)-4-[4-(5-methyl-1H-imidazol-4-yl)-1-piperidinyl]- (9CI) (CA INDEX NAME)



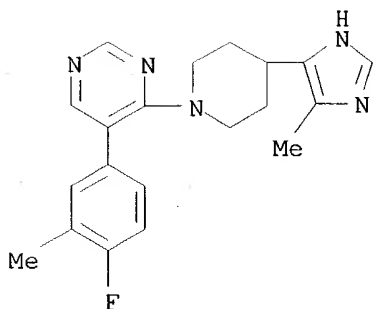
RN 335063-32-6 CAPLUS

CN Pyrimidine, 5-(3,4-dichlorophenyl)-4-[4-(5-methyl-1H-imidazol-4-yl)-1-piperidinyl]- (9CI) (CA INDEX NAME)



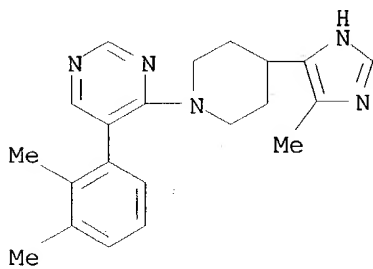
RN 335063-33-7 CAPLUS

CN Pyrimidine, 5-(4-fluoro-3-methylphenyl)-4-[4-(5-methyl-1H-imidazol-4-yl)-1-piperidinyl]- (9CI) (CA INDEX NAME)



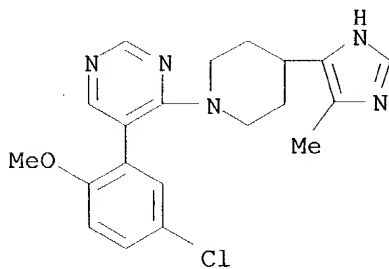
RN 335063-34-8 CAPLUS

CN Pyrimidine, 5-(2,3-dimethylphenyl)-4-[4-(5-methyl-1H-imidazol-4-yl)-1-piperidinyl]- (9CI) (CA INDEX NAME)



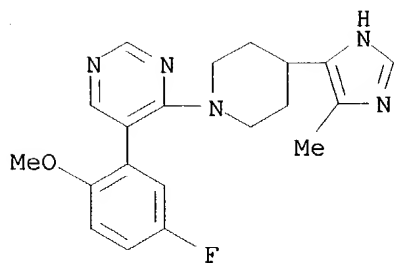
RN 335063-35-9 CAPLUS

CN Pyrimidine, 5-(5-chloro-2-methoxyphenyl)-4-[4-(5-methyl-1H-imidazol-4-yl)-1-piperidinyl]- (9CI) (CA INDEX NAME)



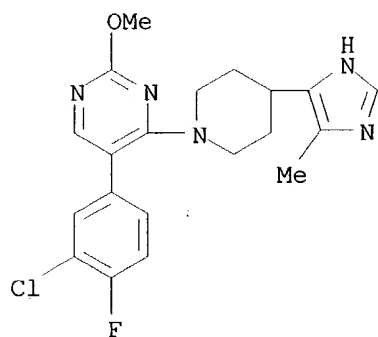
RN 335063-36-0 CAPLUS

CN Pyrimidine, 5-(5-fluoro-2-methoxyphenyl)-4-[4-(5-methyl-1H-imidazol-4-yl)-1-piperidinyl]- (9CI) (CA INDEX NAME)



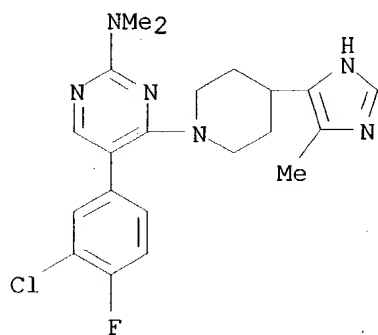
RN 335063-37-1 CAPLUS

CN Pyrimidine, 5-(3-chloro-4-fluorophenyl)-2-methoxy-4-[4-(5-methyl-1H-imidazol-4-yl)-1-piperidinyl]- (9CI) (CA INDEX NAME)



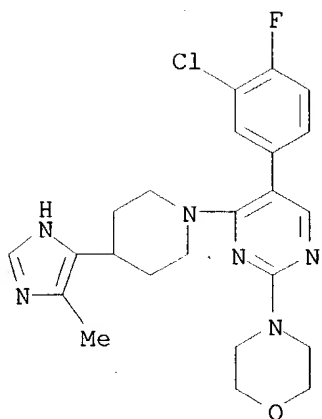
RN 335063-38-2 CAPLUS

CN 2-Pyrimidinamine, 5-(3-chloro-4-fluorophenyl)-N,N-dimethyl-4-[4-(5-methyl-1H-imidazol-4-yl)-1-piperidinyl]- (9CI) (CA INDEX NAME)



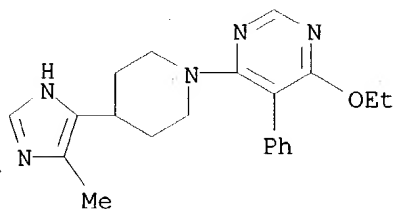
RN 335063-39-3 CAPLUS

CN Morpholine, 4-[5-(3-chloro-4-fluorophenyl)-4-[4-(5-methyl-1H-imidazol-4-yl)-1-piperidinyl]-2-pyrimidinyl]- (9CI) (CA INDEX NAME)



RN 335063-40-6 CAPLUS

CN Pyrimidine, 4-ethoxy-6-[4-(5-methyl-1H-imidazol-4-yl)-1-piperidinyl]-5-phenyl- (9CI) (CA INDEX NAME)



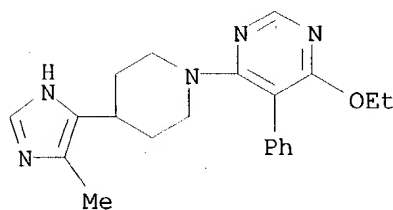
RN 335063-41-7 CAPLUS

CN Pyrimidine, 4-ethoxy-6-[4-(5-methyl-1H-imidazol-4-yl)-1-piperidinyl]-5-phenyl-, bis(trifluoroacetate) (9CI) (CA INDEX NAME)

CM 1

CRN 335063-40-6

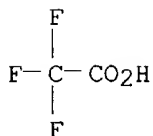
CMF C21 H25 N5 O



CM 2

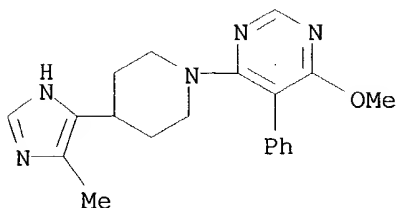
CRN 76-05-1

CMF C2 H F3 O2



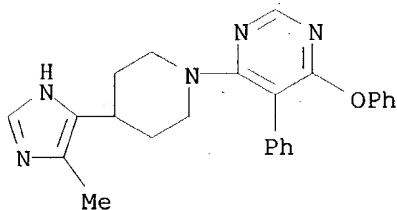
RN 335063-42-8 CAPLUS

CN Pyrimidine, 4-methoxy-6-[4-(5-methyl-1H-imidazol-4-yl)-1-piperidinyl]-5-phenyl- (9CI) (CA INDEX NAME)



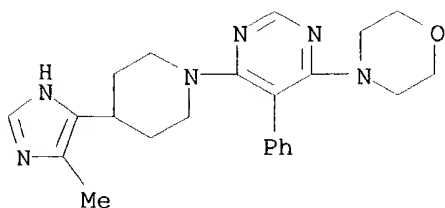
RN 335063-43-9 CAPLUS

CN Pyrimidine, 4-[4-(5-methyl-1H-imidazol-4-yl)-1-piperidinyl]-6-phenoxy-5-phenyl- (9CI) (CA INDEX NAME)



RN 335063-44-0 CAPLUS

CN Morpholine, 4-[6-[4-(5-methyl-1H-imidazol-4-yl)-1-piperidinyl]-5-phenyl-4-pyrimidinyl]- (9CI) (CA INDEX NAME)



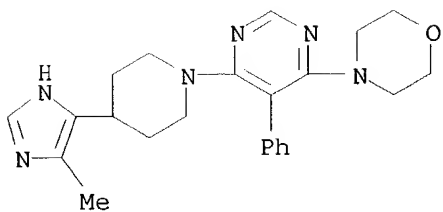
RN 335063-45-1 CAPLUS

CN Morpholine, 4-[6-[4-(5-methyl-1H-imidazol-4-yl)-1-piperidinyl]-5-phenyl-4-pyrimidinyl]-, bis(trifluoroacetate) (9CI) (CA INDEX NAME)

CM 1

CRN 335063-44-0

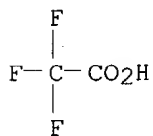
CMF C23 H28 N6 O



CM 2

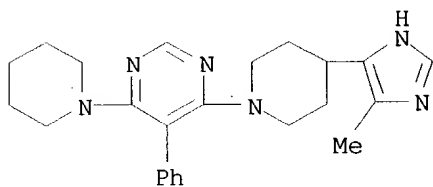
CRN 76-05-1

CMF C2 H F3 O2



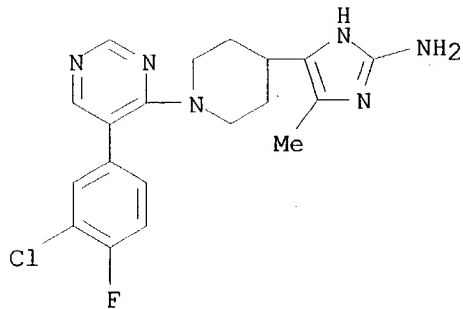
RN 335063-46-2 CAPLUS

CN Pyrimidine, 4-[4-(5-methyl-1H-imidazol-4-yl)-1-piperidinyl]-5-phenyl-6-(1-piperidinyl)- (9CI) (CA INDEX NAME)



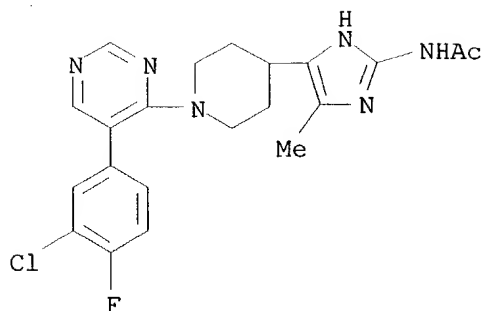
RN 335063-47-3 CAPLUS

CN 1H-Imidazol-2-amine, 4-[1-[5-(3-chloro-4-fluorophenyl)-4-pyrimidinyl]-4-piperidinyl]-5-methyl- (9CI) (CA INDEX NAME)

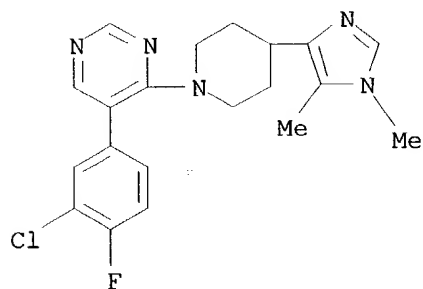


RN 335063-48-4 CAPLUS

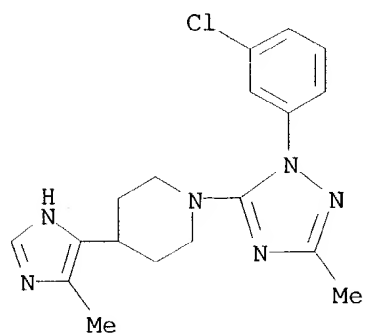
CN Acetamide, N-[4-[1-[5-(3-chloro-4-fluorophenyl)-4-pyrimidinyl]-4-piperidinyl]-5-methyl-1H-imidazol-2-yl]- (9CI) (CA INDEX NAME)



RN 335063-49-5 CAPLUS
CN Pyrimidine, 5-(3-chloro-4-fluorophenyl)-4-[4-(1,5-dimethyl-1H-imidazol-4-yl)-1-piperidinyl]- (9CI) (CA INDEX NAME)



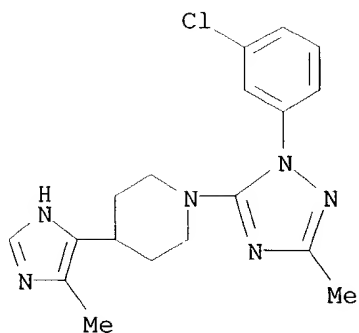
RN 335063-54-2 CAPLUS
CN Piperidine, 1-[1-(3-chlorophenyl)-3-methyl-1H-1,2,4-triazol-5-yl]-4-(5-methyl-1H-imidazol-4-yl)- (9CI) (CA INDEX NAME)



RN 335063-55-3 CAPLUS
CN Piperidine, 1-[1-(3-chlorophenyl)-3-methyl-1H-1,2,4-triazol-5-yl]-4-(5-methyl-1H-imidazol-4-yl)-, trifluoroacetate (9CI) (CA INDEX NAME)

CM 1

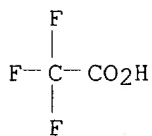
CRN 335063-54-2
CMF C18 H21 Cl N6



CM 2

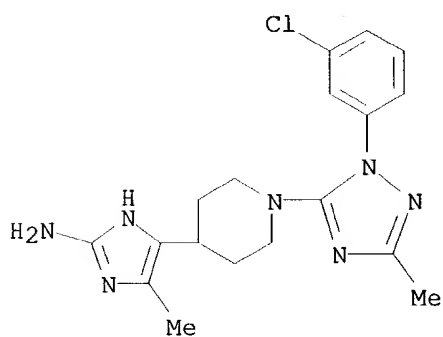
CRN 76-05-1

CMF C2 H F3 O2



RN 335063-56-4 CAPLUS

CN 1H-Imidazol-2-amine, 4-[1-[1-(3-chlorophenyl)-3-methyl-1H-1,2,4-triazol-5-yl]-4-piperidinyl]-5-methyl- (9CI) (CA INDEX NAME)



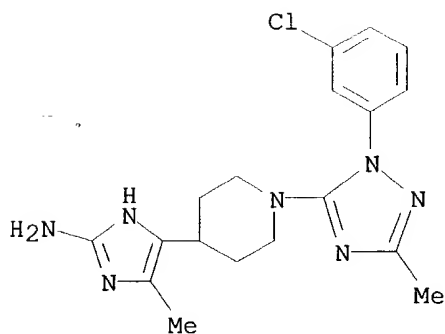
RN 335063-57-5 CAPLUS

CN 1H-Imidazol-2-amine, 4-[1-[1-(3-chlorophenyl)-3-methyl-1H-1,2,4-triazol-5-yl]-4-piperidinyl]-5-methyl-, trifluoroacetate (9CI) (CA INDEX NAME)

CM 1

CRN 335063-56-4

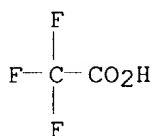
CMF C18 H22 Cl N7



CM 2

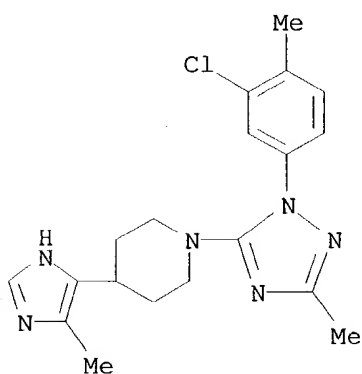
CRN 76-05-1

CMF C2 H F3 O2



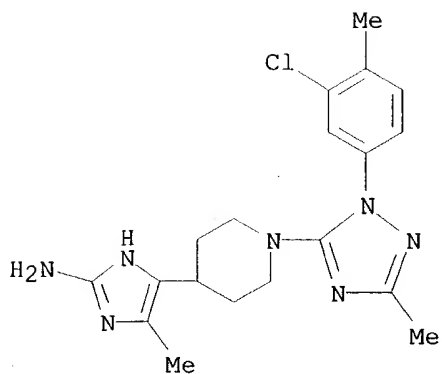
RN 335063-58-6 CAPLUS

CN Piperidine, 1-[1-(3-chloro-4-methylphenyl)-3-methyl-1H-1,2,4-triazol-5-yl]-4-(5-methyl-1H-imidazol-4-yl)- (9CI) (CA INDEX NAME)



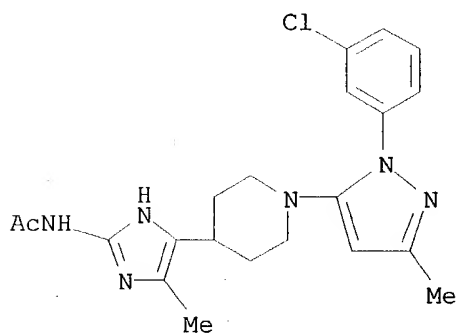
RN 335063-59-7 CAPLUS

CN 1H-Imidazol-2-amine, 4-[1-[1-(3-chloro-4-methylphenyl)-3-methyl-1H-1,2,4-triazol-5-yl]-4-piperidinyl]-5-methyl- (9CI) (CA INDEX NAME)



RN 335063-69-9 CAPLUS

CN Acetamide, N-[4-[1-[1-(3-chlorophenyl)-3-methyl-1H-pyrazol-5-yl]-4-piperidinyl]-5-methyl-1H-imidazol-2-yl]- (9CI) (CA INDEX NAME)



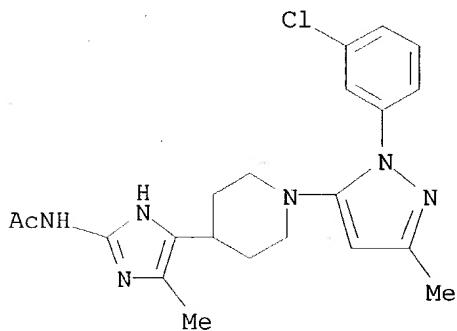
RN 335063-70-2 CAPLUS

CN Acetamide, N-[4-[1-[1-(3-chlorophenyl)-3-methyl-1H-pyrazol-5-yl]-4-piperidinyl]-5-methyl-1H-imidazol-2-yl]-, mono(trifluoroacetate) (9CI) (CA INDEX NAME)

CM 1

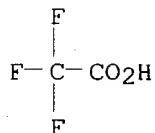
CRN 335063-69-9

CMF C21 H25 Cl N6 O

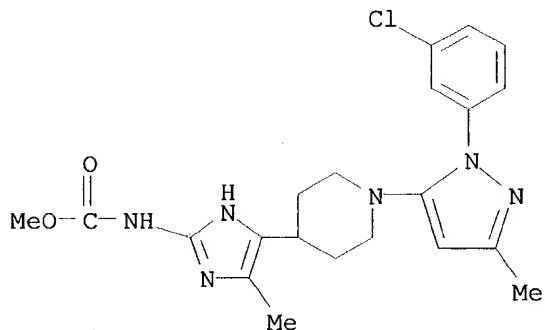


CM 2

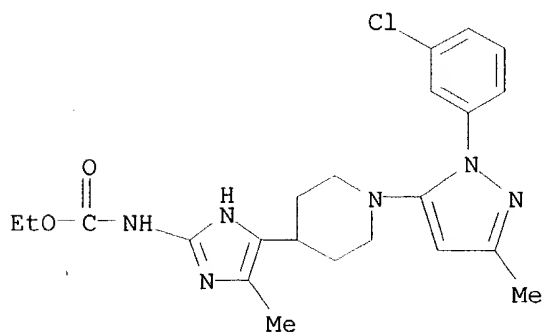
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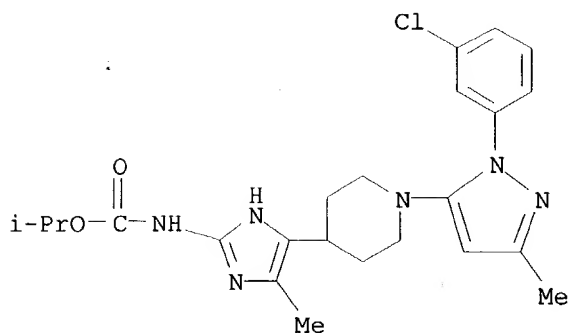
RN 335063-71-3 CAPLUS
CN Carbamic acid, [4-[1-[1-(3-chlorophenyl)-3-methyl-1H-pyrazol-5-yl]-4-piperidinyl]-5-methyl-1H-imidazol-2-yl]-, methyl ester (9CI) (CA INDEX NAME)



RN 335063-72-4 CAPLUS
CN Carbamic acid, [4-[1-[1-(3-chlorophenyl)-3-methyl-1H-pyrazol-5-yl]-4-piperidinyl]-5-methyl-1H-imidazol-2-yl]-, ethyl ester (9CI) (CA INDEX NAME)

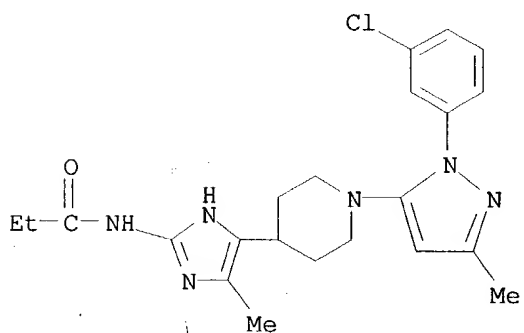


RN 335063-73-5 CAPLUS
CN Carbamic acid, [4-[1-[1-(3-chlorophenyl)-3-methyl-1H-pyrazol-5-yl]-4-piperidinyl]-5-methyl-1H-imidazol-2-yl]-, 1-methylethyl ester (9CI) (CA INDEX NAME)



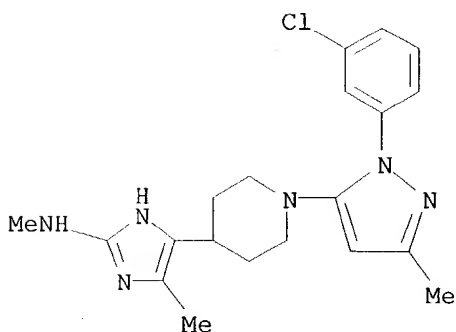
RN 335063-74-6 CAPLUS

CN Propanamide, N-[4-[1-[1-(3-chlorophenyl)-3-methyl-1H-pyrazol-5-yl]-4-piperidinyl]-5-methyl-1H-imidazol-2-yl]- (9CI) (CA INDEX NAME)



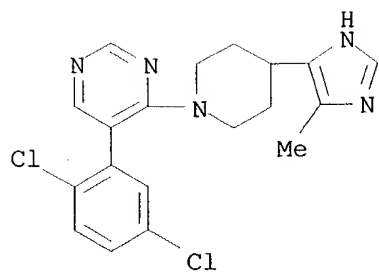
RN 335063-75-7 CAPLUS

CN 1H-Imidazol-2-amine, 4-[1-[1-(3-chlorophenyl)-3-methyl-1H-pyrazol-5-yl]-4-piperidinyl]-N,5-dimethyl- (9CI) (CA INDEX NAME)



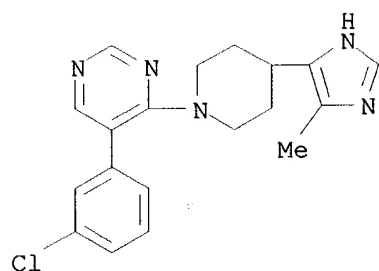
RN 335063-77-9 CAPLUS

CN Pyrimidine, 5-(2,5-dichlorophenyl)-4-[4-(5-methyl-1H-imidazol-4-yl)-1-piperidinyl]- (9CI) (CA INDEX NAME)



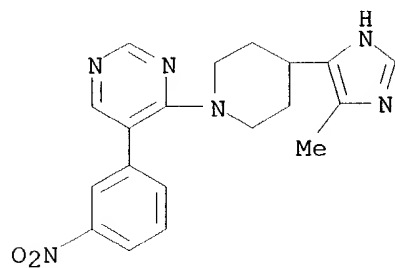
RN 335063-78-0 CAPLUS

CN Pyrimidine, 5-(3-chlorophenyl)-4-[4-(5-methyl-1H-imidazol-4-yl)-1-piperidinyl]- (9CI) (CA INDEX NAME)



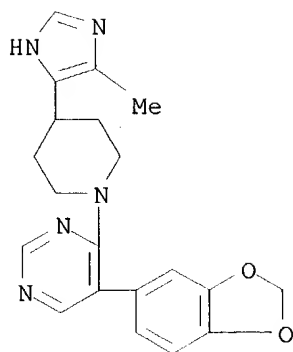
RN 335063-79-1 CAPLUS

CN Pyrimidine, 4-[4-(5-methyl-1H-imidazol-4-yl)-1-piperidinyl]-5-(3-nitrophenyl)- (9CI) (CA INDEX NAME)



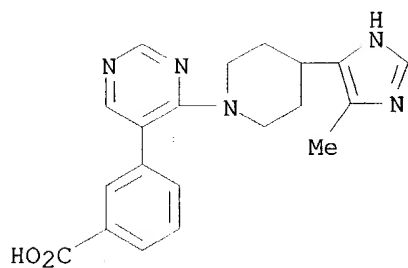
RN 335063-80-4 CAPLUS

CN Pyrimidine, 5-(1,3-benzodioxol-5-yl)-4-[4-(5-methyl-1H-imidazol-4-yl)-1-piperidinyl]- (9CI) (CA INDEX NAME)



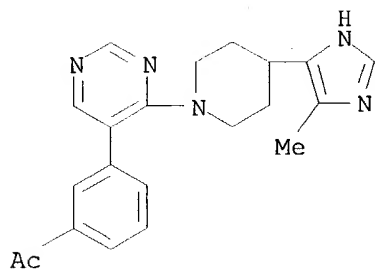
RN 335063-81-5 CAPLUS

CN Benzoic acid, 3-[4-[4-(5-methyl-1H-imidazol-4-yl)-1-piperidinyl]-5-pyrimidinyl]- (9CI) (CA INDEX NAME)



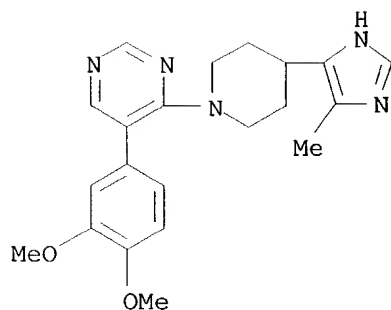
RN 335063-82-6 CAPLUS

CN Ethanone, 1-[3-[4-[4-(5-methyl-1H-imidazol-4-yl)-1-piperidinyl]-5-pyrimidinyl]phenyl]- (9CI) (CA INDEX NAME)



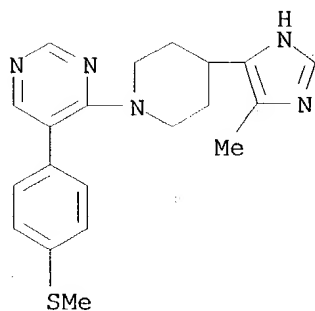
RN 335063-83-7 CAPLUS

CN Pyrimidine, 4-[4-(5-methyl-1H-imidazol-4-yl)-1-piperidinyl]-5-[3-(trifluoromethoxy)phenyl]- (9CI) (CA INDEX NAME)



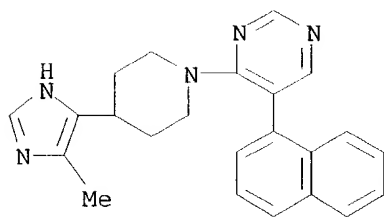
RN 335063-87-1 CAPLUS

CN Pyrimidine, 4-[4-(5-methyl-1H-imidazol-4-yl)-1-piperidinyl]-5-[4-(methoxythio)phenyl]- (9CI) (CA INDEX NAME)



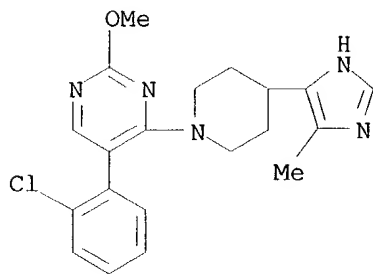
RN 335063-88-2 CAPLUS

CN Pyrimidine, 4-[4-(5-methyl-1H-imidazol-4-yl)-1-piperidinyl]-5-(1-naphthalenyl)- (9CI) (CA INDEX NAME)



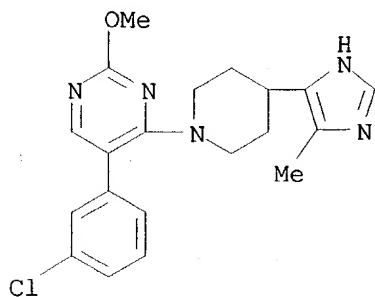
RN 335063-89-3 CAPLUS

CN Pyrimidine, 5-(2-chlorophenyl)-2-methoxy-4-[4-(5-methyl-1H-imidazol-4-yl)-1-piperidinyl]- (9CI) (CA INDEX NAME)



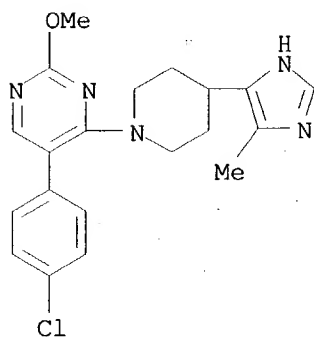
RN 335063-90-6 CAPLUS

CN Pyrimidine, 5-(3-chlorophenyl)-2-methoxy-4-[4-(5-methyl-1H-imidazol-4-yl)-1-piperidinyl]- (9CI) (CA INDEX NAME)



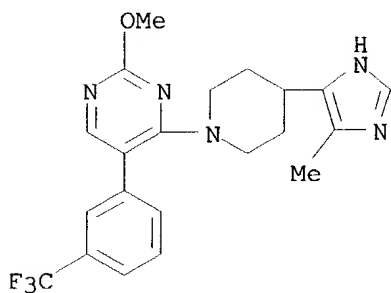
RN 335063-91-7 CAPLUS

CN Pyrimidine, 5-(4-chlorophenyl)-2-methoxy-4-[4-(5-methyl-1H-imidazol-4-yl)-1-piperidinyl]- (9CI) (CA INDEX NAME)



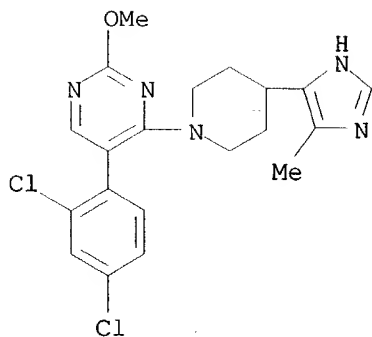
RN 335063-92-8 CAPLUS

CN Pyrimidine, 2-methoxy-4-[4-(5-methyl-1H-imidazol-4-yl)-1-piperidinyl]-5-[3-(trifluoromethyl)phenyl]- (9CI) (CA INDEX NAME)



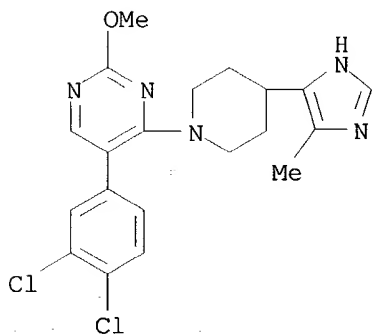
RN 335063-93-9 CAPLUS

CN Pyrimidine, 5-(2,4-dichlorophenyl)-2-methoxy-4-[4-(5-methyl-1H-imidazol-4-yl)-1-piperidinyl]- (9CI) (CA INDEX NAME)



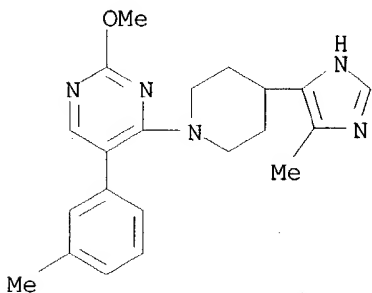
RN 335063-94-0 CAPLUS

CN Pyrimidine, 5-(3,4-dichlorophenyl)-2-methoxy-4-[4-(5-methyl-1H-imidazol-4-yl)-1-piperidinyl]- (9CI) (CA INDEX NAME)



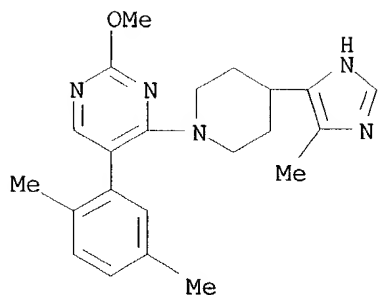
RN 335063-95-1 CAPLUS

CN Pyrimidine, 2-methoxy-4-[4-(5-methyl-1H-imidazol-4-yl)-1-piperidinyl]-5-(3-methylphenyl)- (9CI) (CA INDEX NAME)



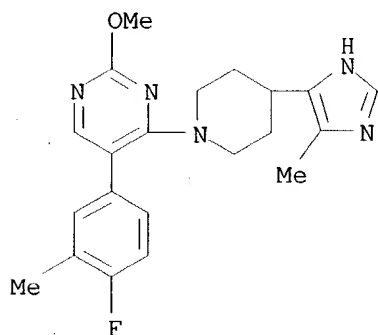
RN 335063-96-2 CAPLUS

CN Pyrimidine, 5-(2,5-dimethylphenyl)-2-methoxy-4-[4-(5-methyl-1H-imidazol-4-yl)-1-piperidinyl]- (9CI) (CA INDEX NAME)



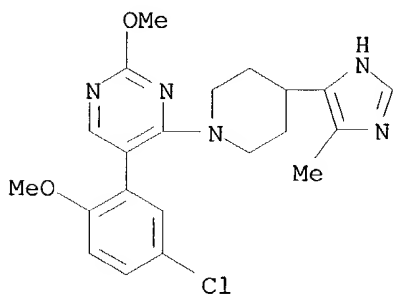
RN 335063-97-3 CAPLUS

CN Pyrimidine, 5-(4-fluoro-3-methylphenyl)-2-methoxy-4-[4-(5-methyl-1H-imidazol-4-yl)-1-piperidinyl]- (9CI) (CA INDEX NAME)



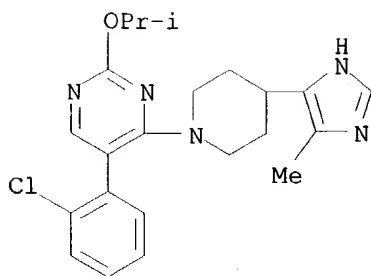
RN 335063-98-4 CAPLUS

CN Pyrimidine, 5-(5-chloro-2-methoxyphenyl)-2-methoxy-4-[4-(5-methyl-1H-imidazol-4-yl)-1-piperidinyl]- (9CI) (CA INDEX NAME)



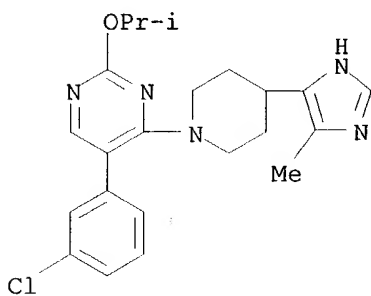
RN 335063-99-5 CAPLUS

CN Pyrimidine, 5-(2-chlorophenyl)-2-(1-methylethoxy)-4-[4-(5-methyl-1H-imidazol-4-yl)-1-piperidinyl]- (9CI) (CA INDEX NAME)



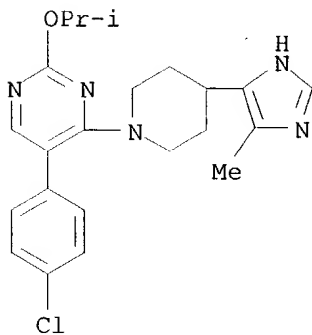
RN 335064-00-1 CAPLUS

CN Pyrimidine, 5-(3-chlorophenyl)-2-(1-methylethoxy)-4-[4-(5-methyl-1H-imidazol-4-yl)-1-piperidinyl]- (9CI) (CA INDEX NAME)



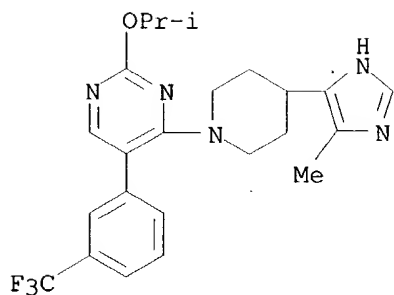
RN 335064-01-2 CAPLUS

CN Pyrimidine, 5-(4-chlorophenyl)-2-(1-methylethoxy)-4-[4-(5-methyl-1H-imidazol-4-yl)-1-piperidinyl]- (9CI) (CA INDEX NAME)

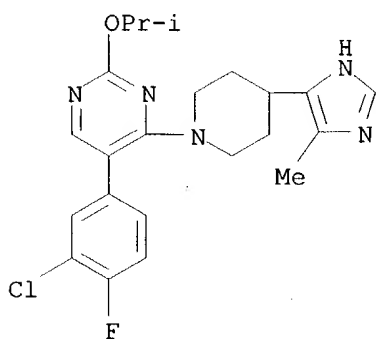


RN 335064-02-3 CAPLUS

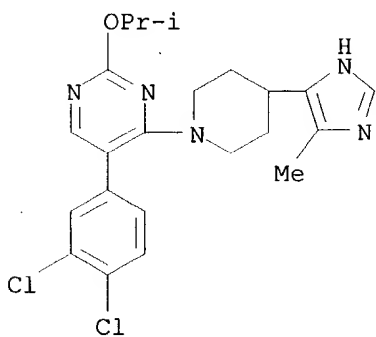
CN Pyrimidine, 2-(1-methylethoxy)-4-[4-(5-methyl-1H-imidazol-4-yl)-1-piperidinyl]-5-[3-(trifluoromethyl)phenyl]- (9CI) (CA INDEX NAME)



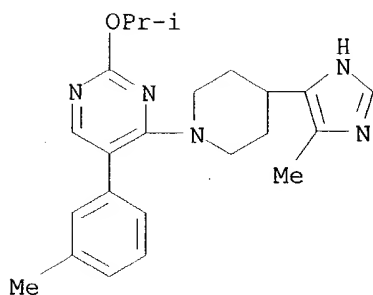
RN 335064-03-4 CAPLUS
CN Pyrimidine, 5-(3-chloro-4-fluorophenyl)-2-(1-methylethoxy)-4-[4-(5-methyl-1H-imidazol-4-yl)-1-piperidinyl]- (9CI) (CA INDEX NAME)



RN 335064-04-5 CAPLUS
CN Pyrimidine, 5-(3,4-dichlorophenyl)-2-(1-methylethoxy)-4-[4-(5-methyl-1H-imidazol-4-yl)-1-piperidinyl]- (9CI) (CA INDEX NAME)

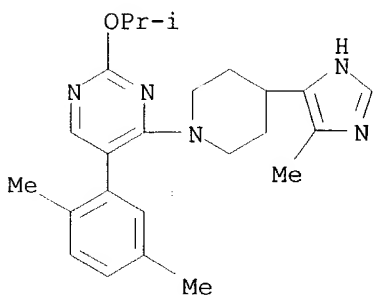


RN 335064-05-6 CAPLUS
CN Pyrimidine, 2-(1-methylethoxy)-4-[4-(5-methyl-1H-imidazol-4-yl)-1-piperidinyl]-5-(3-methylphenyl)- (9CI) (CA INDEX NAME)



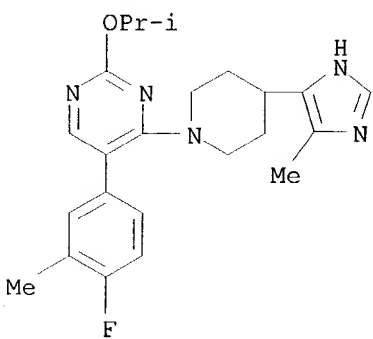
RN 335064-06-7 CAPLUS

CN Pyrimidine, 5-(2,5-dimethylphenyl)-2-(1-methylethoxy)-4-[4-(5-methyl-1H-imidazol-4-yl)-1-piperidinyl]- (9CI) (CA INDEX NAME)



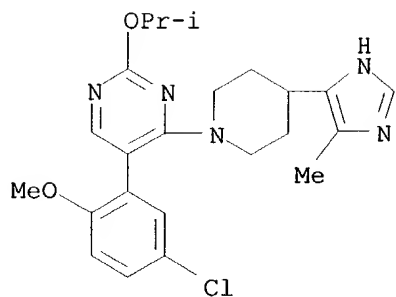
RN 335064-07-8 CAPLUS

CN Pyrimidine, 5-(4-fluoro-3-methylphenyl)-2-(1-methylethoxy)-4-[4-(5-methyl-1H-imidazol-4-yl)-1-piperidinyl]- (9CI) (CA INDEX NAME)



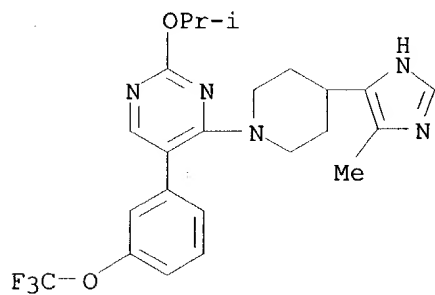
RN 335064-08-9 CAPLUS

CN Pyrimidine, 5-(5-chloro-2-methoxyphenyl)-2-(1-methylethoxy)-4-[4-(5-methyl-1H-imidazol-4-yl)-1-piperidinyl]- (9CI) (CA INDEX NAME)



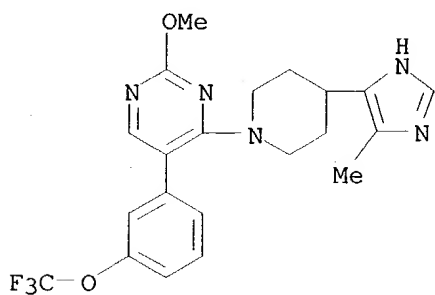
RN 335064-09-0 CAPLUS

CN Pyrimidine, 2-(1-methylethoxy)-4-[4-(5-methyl-1H-imidazol-4-yl)-1-piperidinyl]-5-[3-(trifluoromethoxy)phenyl]- (9CI) (CA INDEX NAME)



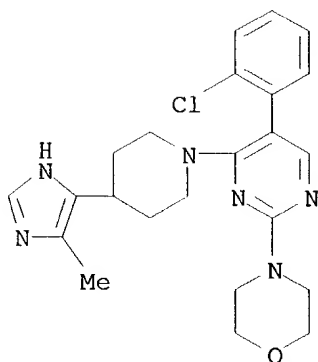
RN 335064-10-3 CAPLUS

CN Pyrimidine, 2-methoxy-4-[4-(5-methyl-1H-imidazol-4-yl)-1-piperidinyl]-5-[3-(trifluoromethoxy)phenyl]- (9CI) (CA INDEX NAME)



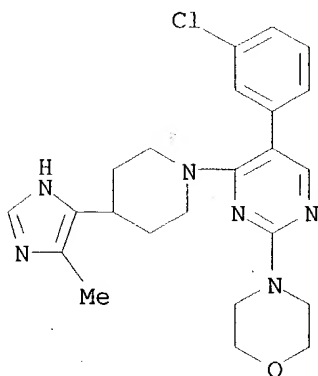
RN 335064-11-4 CAPLUS

CN Morpholine, 4-[5-(2-chlorophenyl)-4-[4-(5-methyl-1H-imidazol-4-yl)-1-piperidinyl]-2-pyrimidinyl]- (9CI) (CA INDEX NAME)



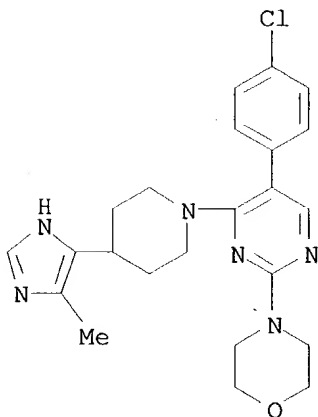
RN 335064-12-5 CAPLUS

CN Morpholine, 4-[5-(3-chlorophenyl)-4-[4-(5-methyl-1H-imidazol-4-yl)-1-piperidinyl]-2-pyrimidinyl]- (9CI) (CA INDEX NAME)



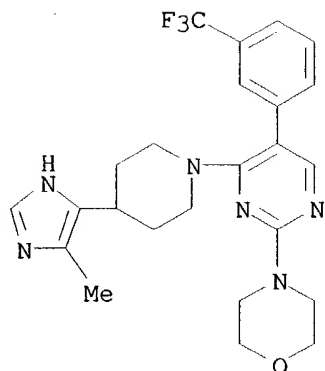
RN 335064-13-6 CAPLUS

CN Morpholine, 4-[5-(4-chlorophenyl)-4-[4-(5-methyl-1H-imidazol-4-yl)-1-piperidinyl]-2-pyrimidinyl]- (9CI) (CA INDEX NAME)

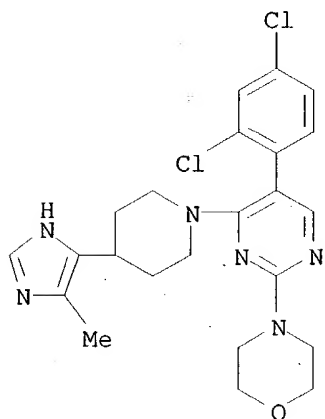


RN 335064-14-7 CAPLUS

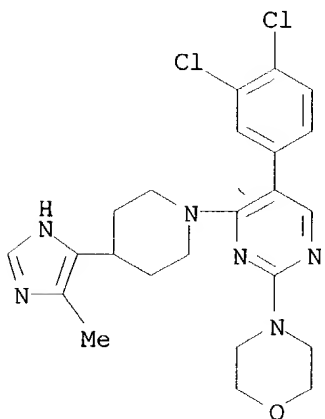
CN Morpholine, 4-[4-[4-(5-methyl-1H-imidazol-4-yl)-1-piperidinyl]-5-[3-(trifluoromethyl)phenyl]-2-pyrimidinyl]- (9CI) (CA INDEX NAME)



RN 335064-15-8 CAPLUS
CN Morpholine, 4-[5-(2,4-dichlorophenyl)-4-[4-(5-methyl-1H-imidazol-4-yl)-1-piperidinyl]-2-pyrimidinyl]- (9CI) (CA INDEX NAME)

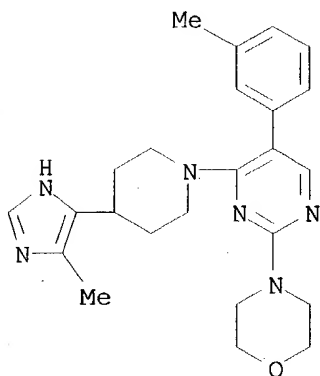


RN 335064-16-9 CAPLUS
CN Morpholine, 4-[5-(3,4-dichlorophenyl)-4-[4-(5-methyl-1H-imidazol-4-yl)-1-piperidinyl]-2-pyrimidinyl]- (9CI) (CA INDEX NAME)



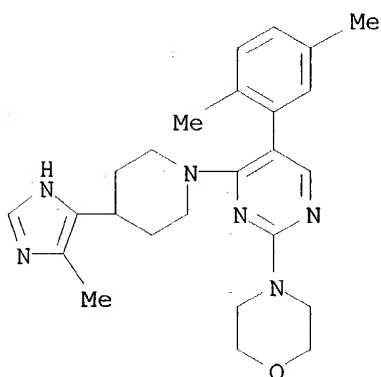
RN 335064-17-0 CAPLUS
CN Morpholine, 4-[4-[4-(5-methyl-1H-imidazol-4-yl)-1-piperidinyl]-5-(3-

methylphenyl)-2-pyrimidinyl]- (9CI) (CA INDEX NAME)



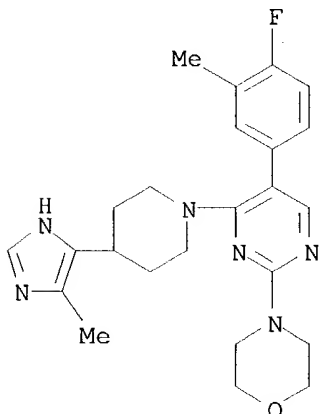
RN 335064-18-1 CAPLUS

CN Morpholine, 4-[5-(2,5-dimethylphenyl)-4-[4-(5-methyl-1H-imidazol-4-yl)-1-piperidinyl]-2-pyrimidinyl]- (9CI) (CA INDEX NAME)



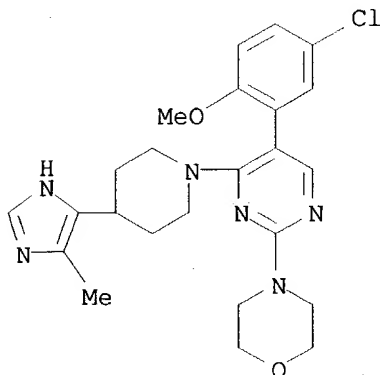
RN 335064-19-2 CAPLUS

CN Morpholine, 4-[5-(4-fluoro-3-methylphenyl)-4-[4-(5-methyl-1H-imidazol-4-yl)-1-piperidinyl]-2-pyrimidinyl]- (9CI) (CA INDEX NAME)



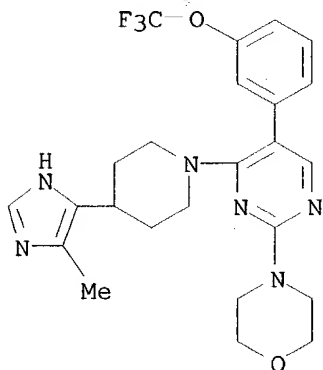
RN 335064-20-5 CAPLUS

CN Morpholine, 4-[5-(5-chloro-2-methoxyphenyl)-4-[4-(5-methyl-1H-imidazol-4-yl)-1-piperidinyl]-2-pyrimidinyl]- (9CI) (CA INDEX NAME)



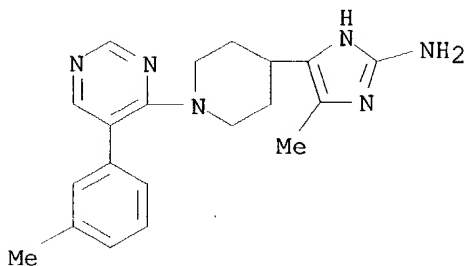
RN 335064-21-6 CAPLUS

CN Morpholine, 4-[4-[4-(5-methyl-1H-imidazol-4-yl)-1-piperidinyl]-5-[3-(trifluoromethoxy)phenyl]-2-pyrimidinyl]- (9CI) (CA INDEX NAME)



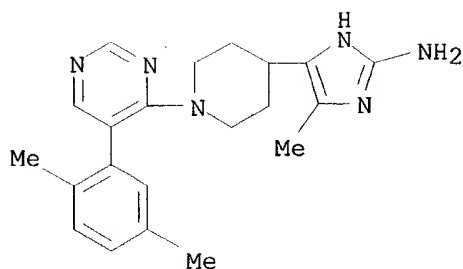
RN 335064-22-7 CAPLUS

CN 1H-Imidazol-2-amine, 4-methyl-5-[1-[5-(3-methylphenyl)-4-pyrimidinyl]-4-piperidinyl]- (9CI) (CA INDEX NAME)



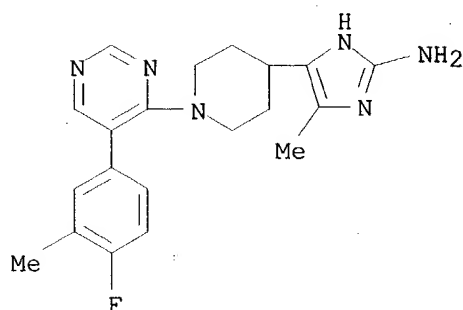
RN 335064-23-8 CAPLUS

CN 1H-Imidazol-2-amine, 4-[1-[5-(2,5-dimethylphenyl)-4-pyrimidinyl]-4-piperidinyl]-5-methyl- (9CI) (CA INDEX NAME)



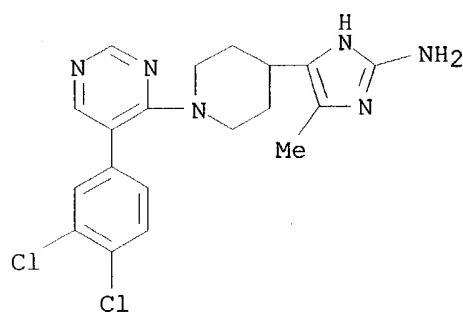
RN 335064-24-9 CAPLUS

CN 1H-Imidazol-2-amine, 4-[1-[5-(4-fluoro-3-methylphenyl)-4-pyrimidinyl]-4-piperidinyl]-5-methyl- (9CI) (CA INDEX NAME)



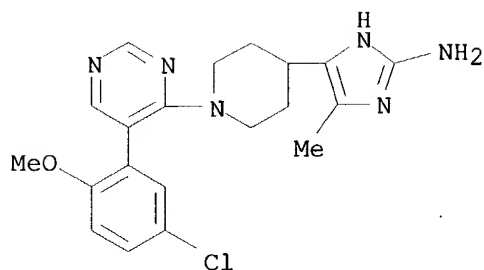
RN 335064-25-0 CAPLUS

CN 1H-Imidazol-2-amine, 4-[1-[5-(3,4-dichlorophenyl)-4-pyrimidinyl]-4-piperidinyl]-5-methyl- (9CI) (CA INDEX NAME)



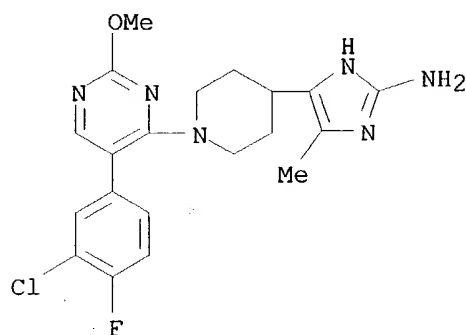
RN 335064-26-1 CAPLUS

CN 1H-Imidazol-2-amine, 4-[1-[5-(5-chloro-2-methoxyphenyl)-4-pyrimidinyl]-4-piperidinyl]-5-methyl- (9CI) (CA INDEX NAME)



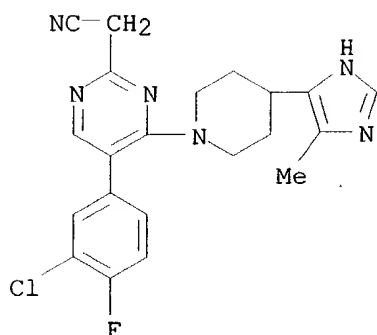
RN 335064-27-2 CAPLUS

CN 1H-Imidazol-2-amine, 4-[1-[5-(3-chloro-4-fluorophenyl)-2-methoxy-4-pyrimidinyl]-4-piperidinyl]-5-methyl- (9CI) (CA INDEX NAME)



RN 335064-28-3 CAPLUS

CN 2-Pyrimidineacetonitrile, 5-(3-chloro-4-fluorophenyl)-4-[4-(5-methyl-1H-imidazol-4-yl)-1-piperidinyl]- (9CI) (CA INDEX NAME)



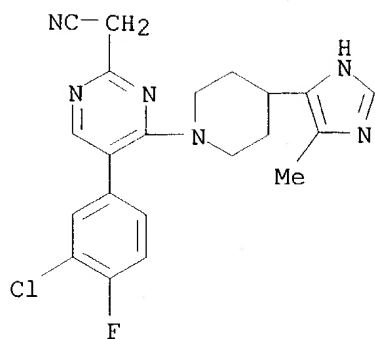
RN 335064-29-4 CAPLUS

CN 2-Pyrimidineacetonitrile, 5-(3-chloro-4-fluorophenyl)-4-[4-(5-methyl-1H-imidazol-4-yl)-1-piperidinyl]-, trifluoroacetate (9CI) (CA INDEX NAME)

CM 1

CRN 335064-28-3

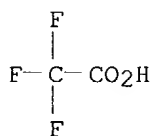
CMF C21 H20 Cl F N6



CM 2

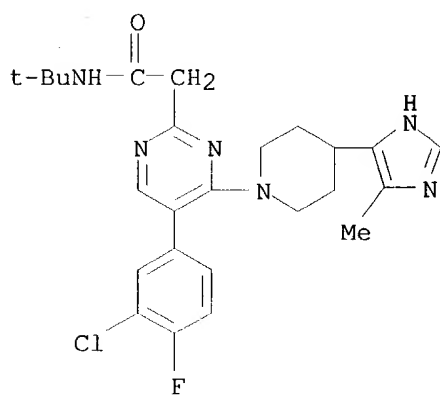
CRN 76-05-1

CMF C2 H F3 O2



RN 335064-30-7 CAPLUS

CN 2-Pyrimidineacetamide, 5-(3-chloro-4-fluorophenyl)-N-(1,1-dimethylethyl)-4-[4-(5-methyl-1H-imidazol-4-yl)-1-piperidinyl]- (9CI) (CA INDEX NAME)



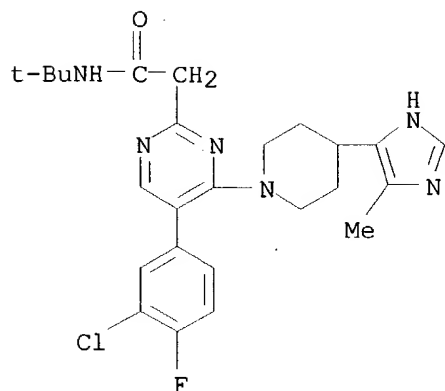
RN 335064-31-8 CAPLUS

CN 2-Pyrimidineacetamide, 5-(3-chloro-4-fluorophenyl)-N-(1,1-dimethylethyl)-4-[4-(5-methyl-1H-imidazol-4-yl)-1-piperidinyl]-, trifluoroacetate (9CI) (CA INDEX NAME)

CM 1

CRN 335064-30-7

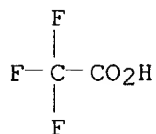
CMF C25 H30 Cl F N6 O



CM 2

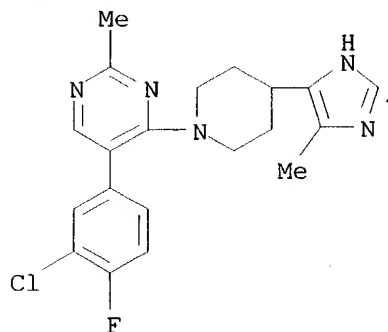
CRN 76-05-1

CMF C2 H F3 O2



RN 335064-32-9 CAPLUS

CN Pyrimidine, 5-(3-chloro-4-fluorophenyl)-2-methyl-4-[4-(5-methyl-1H-imidazol-4-yl)-1-piperidinyl]- (9CI) (CA INDEX NAME)



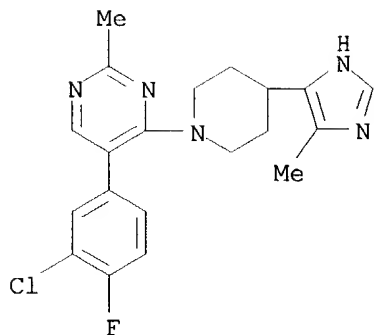
RN 335064-33-0 CAPLUS

CN Pyrimidine, 5-(3-chloro-4-fluorophenyl)-2-methyl-4-[4-(5-methyl-1H-imidazol-4-yl)-1-piperidinyl]-, trifluoroacetate (9CI) (CA INDEX NAME)

CM 1

CRN 335064-32-9

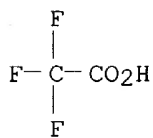
CMF C20 H21 Cl F N5



CM 2

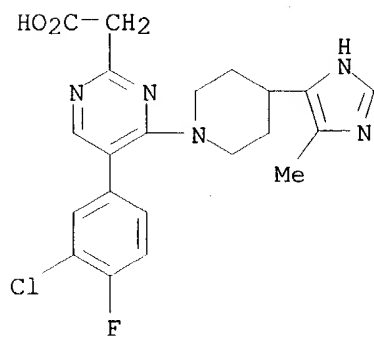
CRN 76-05-1

CMF C2 H F3 O2



RN 335064-34-1 CAPLUS

CN 2-Pyrimidineacetic acid, 5-(3-chloro-4-fluorophenyl)-4-[4-(5-methyl-1H-imidazol-4-yl)-1-piperidinyl]- (9CI) (CA INDEX NAME)



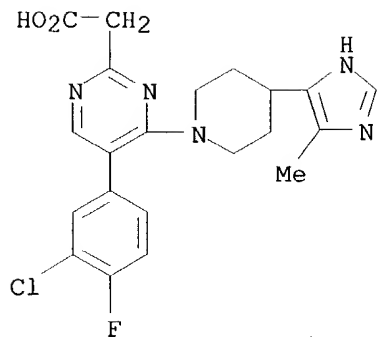
RN 335064-35-2 CAPLUS

CN 2-Pyrimidineacetic acid, 5-(3-chloro-4-fluorophenyl)-4-[4-(5-methyl-1H-imidazol-4-yl)-1-piperidinyl]-, trifluoroacetate (9CI) (CA INDEX NAME)

CM 1

CRN 335064-34-1

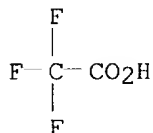
CMF C21 H21 Cl F N5 O2



CM 2

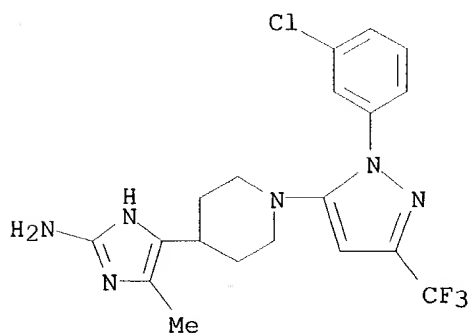
CRN 76-05-1

CMF C2 H F3 O2



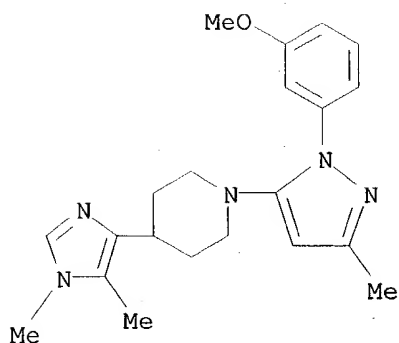
RN 335065-05-9 CAPLUS

CN 1H-Imidazol-2-amine, 4-[1-[1-(3-chlorophenyl)-3-(trifluoromethyl)-1H-pyrazol-5-yl]-4-piperidinyl]-5-methyl- (9CI) (CA INDEX NAME)



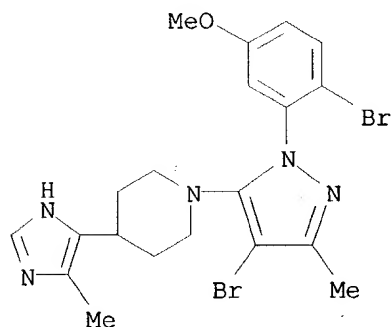
RN 335065-06-0 CAPLUS

CN Piperidine, 4-(1,5-dimethyl-1H-imidazol-4-yl)-1-[1-(3-methoxyphenyl)-3-methyl-1H-pyrazol-5-yl]- (9CI) (CA INDEX NAME)



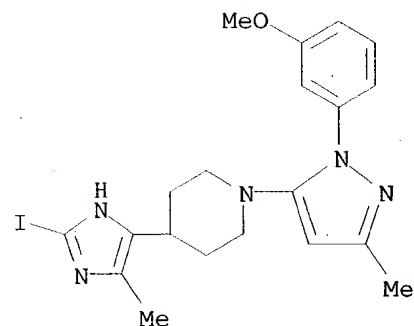
RN 335065-07-1 CAPLUS

CN Piperidine, 1-[4-bromo-1-(2-bromo-5-methoxyphenyl)-3-methyl-1H-pyrazol-5-yl]-4-(5-methyl-1H-imidazol-4-yl)- (9CI) (CA INDEX NAME)



RN 335065-08-2 CAPLUS

CN Piperidine, 4-(2-iodo-5-methyl-1H-imidazol-4-yl)-1-[1-(3-methoxyphenyl)-3-methyl-1H-pyrazol-5-yl]- (9CI) (CA INDEX NAME)



IT 335064-81-8P 335064-82-9P 335064-94-3P

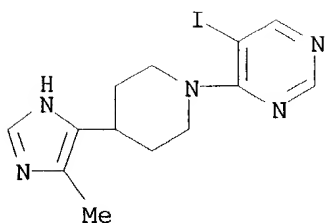
335064-95-4P 335064-96-5P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(synthesis and use of heterocyclic sodium/proton exchange inhibitors)

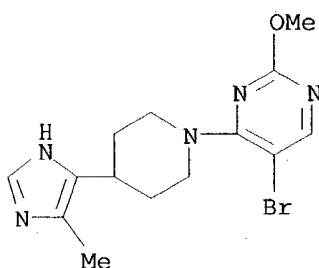
RN 335064-81-8 CAPLUS

CN Pyrimidine, 5-iodo-4-[4-(5-methyl-1H-imidazol-4-yl)-1-piperidinyl]- (9CI) (CA INDEX NAME)



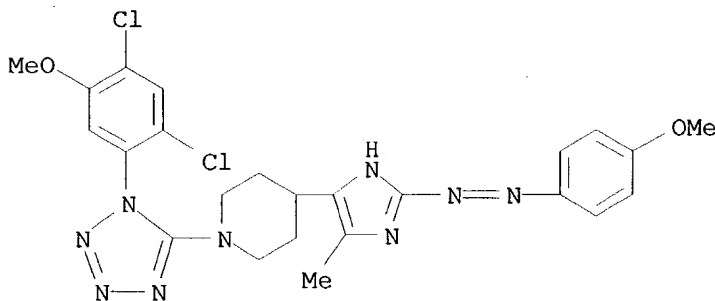
RN 335064-82-9 CAPLUS

CN Pyrimidine, 5-bromo-2-methoxy-4-[4-(5-methyl-1H-imidazol-4-yl)-1-piperidinyl]- (9CI) (CA INDEX NAME)



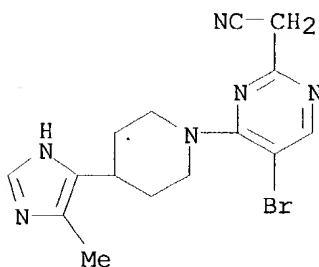
RN 335064-94-3 CAPLUS

CN Piperidine, 1-[1-(2,4-dichloro-5-methoxyphenyl)-1H-tetrazol-5-yl]-4-[2-[(4-methoxyphenyl)azo]-5-methyl-1H-imidazol-4-yl]- (9CI) (CA INDEX NAME)



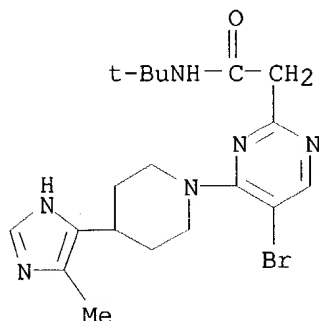
RN 335064-95-4 CAPLUS

CN 2-Pyrimidineacetonitrile, 5-bromo-4-[4-(5-methyl-1H-imidazol-4-yl)-1-piperidinyl]- (9CI) (CA INDEX NAME)



RN 335064-96-5 CAPLUS

CN 2-Pyrimidineacetamide, 5-bromo-N-(1,1-dimethylethyl)-4-[4-(5-methyl-1H-imidazol-4-yl)-1-piperidinyl]- (9CI) (CA INDEX NAME)



L10 ANSWER 9 OF 38 CAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 2001:709746 CAPLUS

DOCUMENT NUMBER: 135:257261

TITLE: Preparation of 2-(piperidin-1-yl)pyrimidones for preventive and/or therapeutic treatment of a neurodegenerative disease caused by abnormal activity of GSK3.beta.

INVENTOR(S): Almario-Garcia, Antonio; Frost, Jonathan Reid; Li-Tak, Adrien

PATENT ASSIGNEE(S): Sanofi-Synthelabo, Fr.; Mitsubishi-Tokyo Pharmaceuticals, Inc.

SOURCE: Eur. Pat. Appl., 14 pp.

CODEN: EPXXDW

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 3

PATENT INFORMATION:

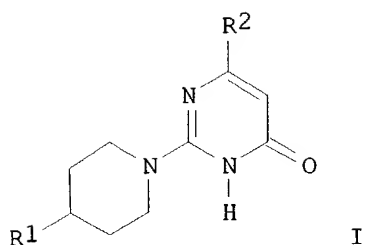
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 1136489	A1	20010926	EP 2000-400802	20000323
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
WO 2001070728	A1	20010927	WO 2001-EP3639	20010322
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				

PRIORITY APPLN. INFO.: EP 2000-400801 A 20000323
EP 2000-400802 A 20000323
EP 2000-400803 A 20000323

OTHER SOURCE(S): MARPAT 135:257261

ED Entered STN: 28 Sep 2001

GI



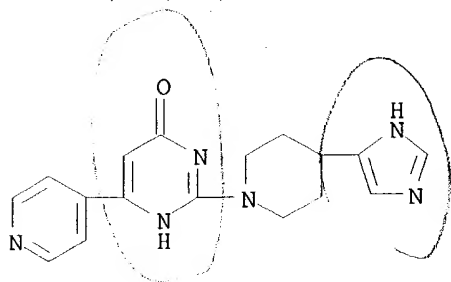
AB The title compds. [I; R1 = (un)substituted aryl, heterocyclic ring having 1-4 hetero atoms selected from O, S, and N atoms, (un)substituted alkyl; R2 = pyridyl optionally substituted by alkyl, alkoxy or halo] and their salts, useful for preventive and/or therapeutic treatment of a neurodegenerative disease caused by abnormal activity of GSK3.beta., such as Alzheimer's disease, Parkinson's disease, frontoparietal dementia, corticobasal degeneration, Pick's disease, cerebrovascular accidents, brain and spinal trauma, and peripheral neuropathy, were prepd. and formulated. E.g., a 3-step synthesis of I [R1 = Ph; R2 = 4-pyridyl] was given. All exemplified compds. I showed IC50's of 0.5-10 .mu.M against GSK3.beta..

IT 362467-49-0P 362467-50-3P

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(prepn. of 2-(piperidin-1-yl)pyrimidones for preventive and/or therapeutic treatment of a neurodegenerative disease caused by abnormal activity of GSK3.beta.)

RN 362467-49-0 CAPLUS

CN 4(1H)-Pyrimidinone, 2-[4-(1H-imidazol-4-yl)-1-piperidinyl]-6-(4-pyridinyl)-
(9CI) (CA INDEX NAME)



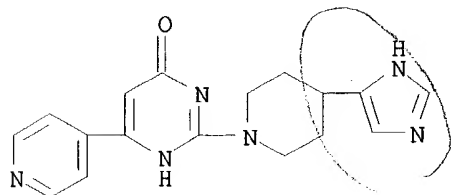
RN 362467-50-3 CAPLUS

CN 4(1H)-Pyrimidinone, 2-[4-(1H-imidazol-4-yl)-1-piperidinyl]-6-(4-pyridinyl)-
, (2Z)-2-butenedioate (1:1) (9CI) (CA INDEX NAME)

CM 1

CRN 362467-49-0

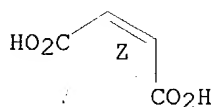
CMF C17 H18 N6 O



CM 2

CRN 110-16-7
CMF C4 H4 O4

Double bond geometry as shown.



REFERENCE COUNT: 2 THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L10 ANSWER 10 OF 38 CAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 2000:900645 CAPLUS

DOCUMENT NUMBER: 134:42071

TITLE: Preparation of aryl and heteroaryl substituted thienopyridines and quinolines as GABA brain receptor ligands

INVENTOR(S): Cai, Guolin; Liu, Gang; Albaugh, Pamela A.

PATENT ASSIGNEE(S): Neurogen Corporation, USA

SOURCE: PCT Int. Appl., 42 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2000077008	A2	20001221	WO 2000-US16731	20000615
WO 2000077008	A3	20010419		

W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM

RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG

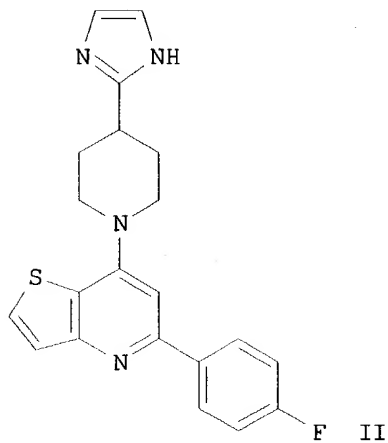
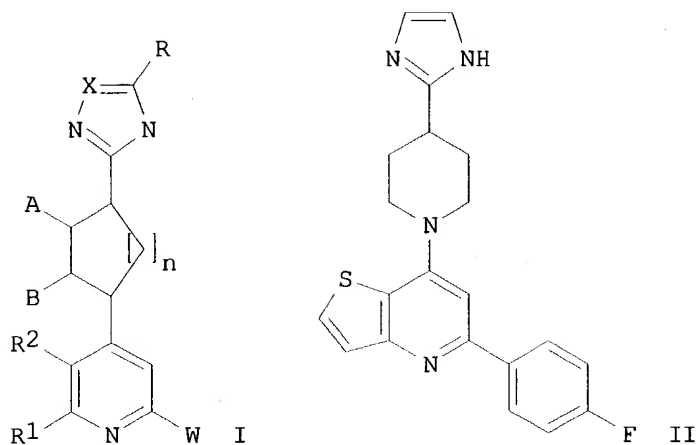
US 6297256 B1 20011002 US 2000-596031 20000615

PRIORITY APPLN. INFO.: US 1999-139202P P 19990615

OTHER SOURCE(S): MARPAT 134:42071

ED Entered STN: 22 Dec 2000

GI



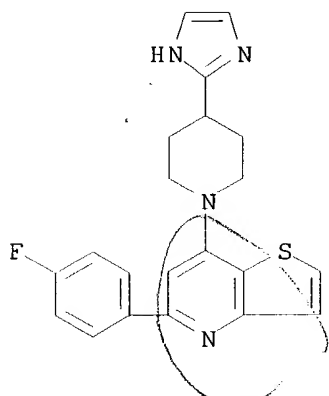
AB The title compds. [I; n = 0-3; X = N, CH, C(alkyl); R = H, alkyl, OH, etc.; A, B = H, alkyl; R1 and R2, together with the two carbon atoms to which they are attached, form (un)substituted 5-7 membered aryl, heteroaryl; W = (un)substituted aryl, heteroaryl, thienyl, etc.] which are highly selective agonists, antagonists or inverse agonists for GABAA brain receptors or prodrugs of agonists, antagonists or inverse agonists for GABAA brain receptors and are therefore useful in the diagnosis and treatment of anxiety, depression, Down Syndrome, sleep and seizure disorders, overdose with benzodiazepine drugs and for enhancement of memory, were prepd. E.g., a 3-step synthesis of II was given. The compds. I are effective at 0.1-140 mg/kg/day. The compds. I are also useful as probes for the localization of GABAA receptors in tissue samples.

IT 239799-72-5P 239799-74-7P 239799-75-8P

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(prepn. of aryl and heteroaryl substituted thienopyridines and quinolines as GABA brain receptor ligands)

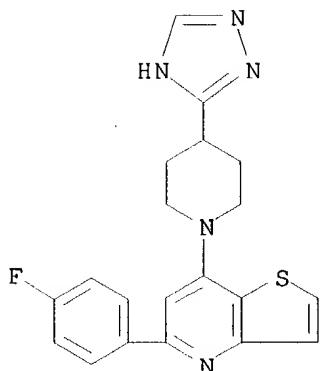
RN 239799-72-5 CAPLUS

CN Thieno[3,2-b]pyridine, 5-(4-fluorophenyl)-7-[4-(1H-imidazol-2-yl)-1-piperidinyl]- (9CI) (CA INDEX NAME)

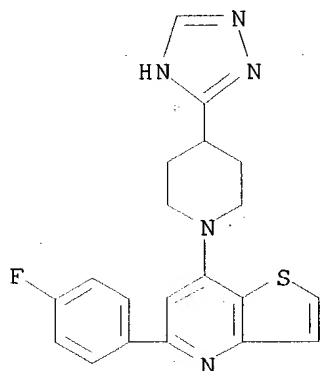


RN 239799-74-7 CAPLUS

CN Thieno[3,2-b]pyridine, 5-(4-fluorophenyl)-7-[4-(1H-1,2,4-triazol-3-yl)-1-piperidinyl]- (9CI) (CA INDEX NAME)



RN 239799-75-8 CAPLUS
CN Thieno[3,2-b]pyridine, 5-(4-fluorophenyl)-7-[4-(1H-1,2,4-triazol-3-yl)-1-piperidinyl]-, monohydrochloride (9CI) (CA INDEX NAME)



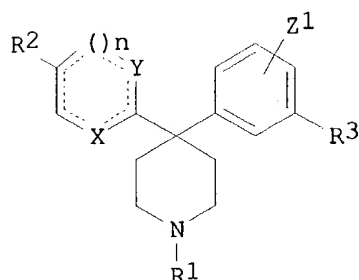
● HCl

L10 ANSWER 11 OF 38 CAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 2000:631890 CAPLUS
DOCUMENT NUMBER: 133:222737
TITLE: Preparation of 4-phenyl-4-heteroarylpiperidines as
ligands for opioid receptors
INVENTOR(S): Liras, Spiros; McHardy, Stanton Furst
PATENT ASSIGNEE(S): Pfizer Products Inc., USA
SOURCE: Jpn. Kokai Tokkyo Koho, 34 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2000247969	A2	20000912	JP 2000-44911	20000222
JP 3370038	B2	20030127		
EP 1038872	A1	20000927	EP 2000-300974	20000208

R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,

IE, SI, LT, LV, FI, RO
 US 6444679 B1 20020903 US 2000-503679 20000214
 CA 2299036 AA 20000822 CA 2000-2299036 20000221
 BR 2000000901 A 20010821 BR 2000-901 20000222
 PRIORITY APPLN. INFO.: US 1999-121156P P 19990222
 OTHER SOURCE(S): MARPAT 133:222737
 ED Entered STN: 12 Sep 2000
 GI



I

AB The title compds. [I; X, Y = O, N, S, CH; provided that the ring contg. X and Y is arom. and both X and Y are not simultaneously O or S; n = 0,1; R1 = H, C0-8 alkoxy-C0-8 alkyl (a total C atoms being .ltoreq.8), aryl, aryl-C1-8 alkyl, heteroaryl, heteroaryl-C1-8 alkyl, heterocyclyl, heterocyclyl-C1-8 alkyl, C3-7 cycloalkyl, C3-7 cycloalkyl-C1-8 alkyl, etc.; R2 = H, aryl, halo, heteroaryl, heterocyclyl, SO2R4, COR4, CONR5R6, CO2R4, C(OH)R5R6, etc.; wherein R4, R5, or R6 is selected from group defined in R1 or R5 and R6 together with bonded N or C atom form 3 to 7-membered ring contg. 0-3 heteroatoms selected from O, N, and S; R3 = HO, hydroxy-C1-6 alkyl, C1-6 alkyl-C1-6 alkoxy, NHSO2R7, C(OH)R7R8, halo, heteroaryl, CONHR7; R7, R8 = H, C1-4 alkyl, C1-4 alkoxy, or C1-4 alkoxy-C1-4 alkyl, wherein each alkyl is optionally substituted with 1-7 F atom(s); Z1 = H, halo, C1-5 alkyl; provided that two-adjacent ring oxygen or nitrogen atoms or ring O atom adjacent to ring S atom do not exist in heterocyclic or heteroaryl portion] are prepd. These compds. regulate bindings to opioid receptors and are useful for the improvement, prevention, or treatment of various disorders or conditions, e.g. (1) inflammatory diseases such as arthritis, psoriasis, and asthma, (2) disorders of respiratory function such as asthma, coughing, and apnea (breathlessness), (3) allergy, (4) gastrointestinal disorders such as gastritis, functional intestinal disorders, irritable bowel syndromes, functional diarrhea, functional dilation, functional pain, indigestion not forming peptic ulcer, gastrointestinal motility disorders, and vomiting, (5) stroke, (6) shock, (7) brain edema, (8) brain injury, (9) spinal cord injury, (10) brain ischemia, (11) brain failure suffered after heart bypass or transplant surgery, (12) urinary or reproductive tract disorders including incontinence, (13) chem. dependence or addiction, (14) chronic pain, (15) acute or neurol. pain, (16) systemic lupus erythematosus, (17) Hodgkin's disease, (18) Sjogren disease, (19) epilepsy, and (20) rejection of organ transplant or skin grafting (no data). Thus, oxidn. of N,N-diethyl-2-[4-(3-hydroxymethylphenyl)-1-(2-methylpentyl)piperidin-4-yl]pyrimidine-5-carboxamide by tetrapropylammonium perruthenate and N-methylmorpholine N-oxide in CH2Cl2 in the presence of 4.ANG. mol. sieve gave an aldehyde which underwent addn. reaction with methylmagnesium bromide in THF at -70.degree. to give N,N-diethyl-2-[4-[3-(1-hydroxyethyl)phenyl]-1-(2-methylpentyl)piperidin-4-yl]pyrimidine-5-carboxamide.

IT 291753-96-3P 291753-97-4P 291753-99-6P

291754-01-3P 291754-03-5P 291754-38-6P

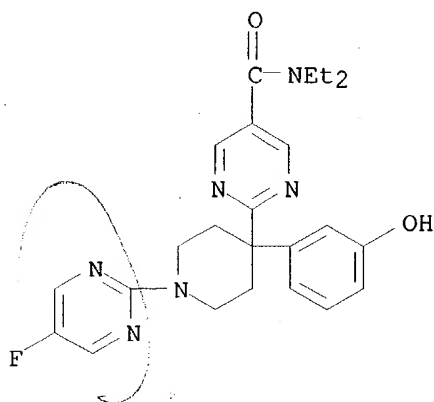
291754-39-7P 291754-40-0P 291754-41-1P

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(prepn. of phenylheteroarylpiperidines as ligands for opioid receptors and drugs)

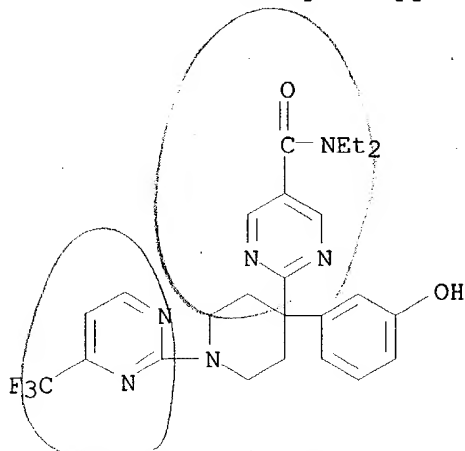
RN 291753-96-3 CAPLUS

CN 5-Pyrimidinecarboxamide, N,N-diethyl-2-[1-(5-fluoro-2-pyrimidinyl)-4-(3-hydroxyphenyl)-4-piperidinyl]- (9CI) (CA INDEX NAME)



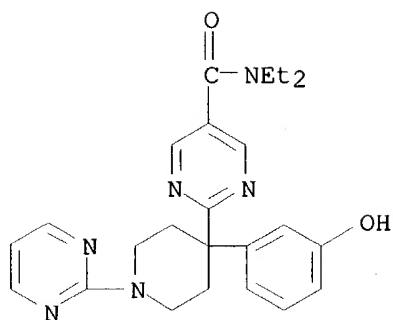
RN 291753-97-4 CAPLUS

CN 5-Pyrimidinecarboxamide, N,N-diethyl-2-[4-(3-hydroxyphenyl)-1-[4-(trifluoromethyl)-2-pyrimidinyl]-4-piperidinyl]- (9CI) (CA INDEX NAME)



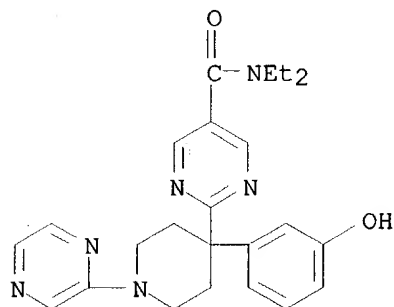
RN 291753-99-6 CAPLUS

CN 5-Pyrimidinecarboxamide, N,N-diethyl-2-[4-(3-hydroxyphenyl)-1-(2-pyrimidinyl)-4-piperidinyl]- (9CI) (CA INDEX NAME)



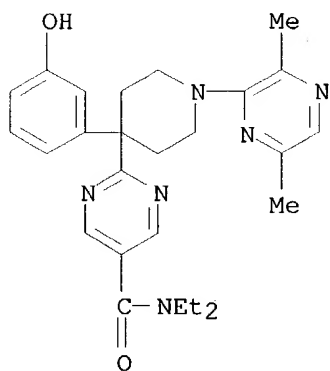
RN 291754-01-3 CAPLUS

CN 5-Pyrimidinecarboxamide, N,N-diethyl-2-[4-(3-hydroxyphenyl)-1-pyrazinyl-4-piperidinyl]- (9CI) (CA INDEX NAME)



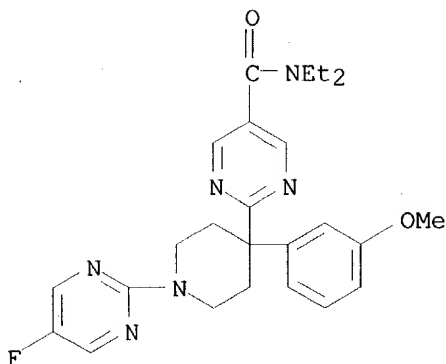
RN 291754-03-5 CAPLUS

CN 5-Pyrimidinecarboxamide, 2-[1-(3,6-dimethylpyrazinyl)-4-(3-hydroxyphenyl)-4-piperidinyl]-N,N-diethyl- (9CI) (CA INDEX NAME)



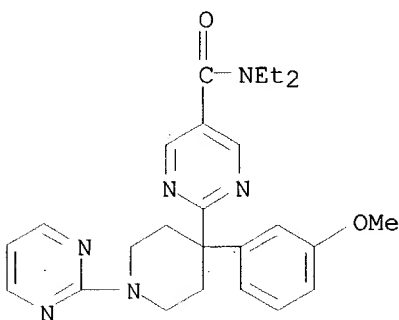
RN 291754-38-6 CAPLUS

CN 5-Pyrimidinecarboxamide, N,N-diethyl-2-[1-(5-fluoro-2-pyrimidinyl)-4-(3-methoxyphenyl)-4-piperidinyl]- (9CI) (CA INDEX NAME)



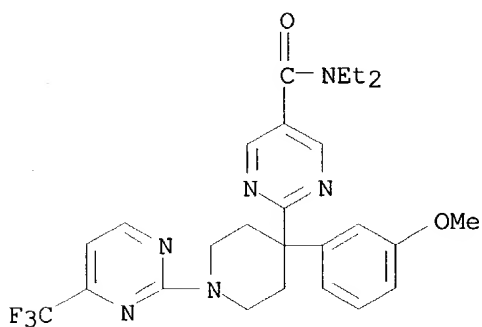
RN 291754-39-7 CAPLUS

CN 5-Pyrimidinecarboxamide, N,N-diethyl-2-[4-(3-methoxyphenyl)-1-(2-pyrimidinyl)-4-piperidinyl]- (9CI) (CA INDEX NAME)



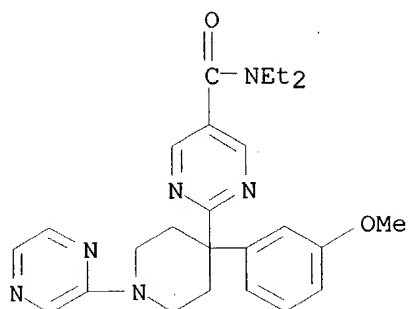
RN 291754-40-0 CAPLUS

CN 5-Pyrimidinecarboxamide, N,N-diethyl-2-[4-(3-methoxyphenyl)-1-[4-(trifluoromethyl)-2-pyrimidinyl]-4-piperidinyl]- (9CI) (CA INDEX NAME)



RN 291754-41-1 CAPLUS

CN 5-Pyrimidinecarboxamide, N,N-diethyl-2-[4-(3-methoxyphenyl)-1-pyrazinyl-4-piperidinyl]- (9CI) (CA INDEX NAME)



~~LTO~~ ANSWER 12 OF 38 CAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 1999:566053 CAPLUS

DOCUMENT NUMBER: 131:184941

TITLE: Preparation of 1-(5-aryltieno[3,2-b]pyridin-7-yl)piperidine-4-carboxamides and analogs as GABAA receptor ligands

INVENTOR(S): Cai, Guolin; Liu, Gang; Chen, Guoqing; Albaugh, Pamela

PATENT ASSIGNEE(S): Neurogen Corporation, USA

SOURCE: PCT Int. Appl., 76 pp.

CODEN: FIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

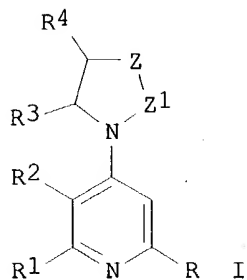
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9943682	A1	19990902	WO 1999-US4223	19990226
W:	AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM			
RW:	GH, GM, KE, LS, MW, SD, SL, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG			
AU 9927931	A1	19990915	AU 1999-27931	19990226
US 6166203	A	20001226	US 1999-259146	19990226
US 2002077474	A1	20020620	US 2000-736497	20001213
US 6423711	B2	20020723		
PRIORITY APPLN. INFO.:			US 1998-76099P	P 19980226
			US 1999-259146	A1 19990226
			WO 1999-US4223	W 19990226

OTHER SOURCE(S): MARPAT 131:184941

ED Entered STN: 08 Sep 1999

GI



AB Title compds. [I; R = (un)substituted (hetero)aryl; R1R2 = atoms to complete a thiophene, pyridine, or pyrimidine ring; R3,R4 = H or alkyl; Z = O, CHR5, NR5; R5 = H, aryl, CO2H, CONH2, alkoxycarbonyl, etc.; Z1 = bond or (CH2)1-3] were prepd. Thus, 3-amino-2-thiophenecarboxylic acid was cyclocondensed with 4-FC6H4COCH2CO2Et and the chlorinated product aminated by isonipecotamide to give I (R = C6H4F-4, R1R2 = CH:CHS, R3 = R4 = H, Z = CHCONH2, Z1 = CH2CH2). Data for biol. activity of I were given.

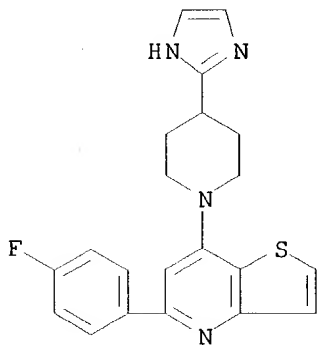
IT 239799-72-5P 239799-74-7P 239799-75-8P

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(prepn. of 1-(5-arylthieno[3,2-b]pyridin-7-yl)piperidine-4-carboxamides and analogs as GABAA receptor ligands)

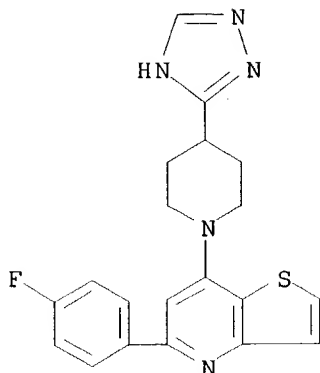
RN 239799-72-5 CAPLUS

CN Thieno[3,2-b]pyridine, 5-(4-fluorophenyl)-7-[4-(1H-imidazol-2-yl)-1-piperidinyl]- (9CI) (CA INDEX NAME)

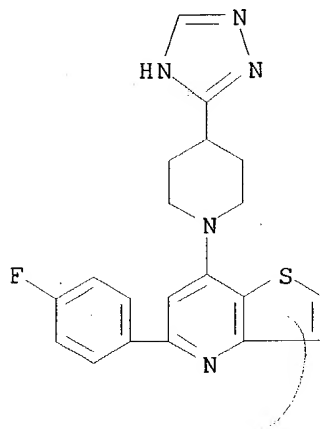


RN 239799-74-7 CAPLUS

CN Thieno[3,2-b]pyridine, 5-(4-fluorophenyl)-7-[4-(1H-1,2,4-triazol-3-yl)-1-piperidinyl]- (9CI) (CA INDEX NAME)



RN 239799-75-8 CAPLUS
CN Thieno[3,2-b]pyridine, 5-(4-fluorophenyl)-7-[4-(1H-1,2,4-triazol-3-yl)-1-piperidinyl]-, monohydrochloride (9CI) (CA INDEX NAME)



● HCl

REFERENCE COUNT: 7 THERE ARE 7 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

~~110~~ ANSWER 13 OF 38 CAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 1997:532189 CAPLUS

DOCUMENT NUMBER: 127:176434

TITLE: Angiogenesis inhibiting pyridazinamines

INVENTOR(S): Stokbboekx, Raymond Antoine; Van Der Aa, Marcel Jozef Maria; Willems, Marc; Meerpoel, Lieven; Luyckx, Marcel Gerebernus Maria; Tuman, Robert W.

PATENT ASSIGNEE(S): Janssen Pharmaceutica N.V., Neth.; Stokbroekx, Raymond Antoine; Van Der Aa, Marcel Jozef Maria; Willems, Marc; Meerpoel, Lieven; Luyckx, Marcel Gerebernus Maria; Tuman, Robert W.

SOURCE: PCT Int. Appl., 41 pp.

CODEN: PIXXD2

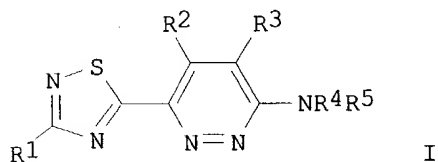
DOCUMENT TYPE: Patent

LANGUAGE: English

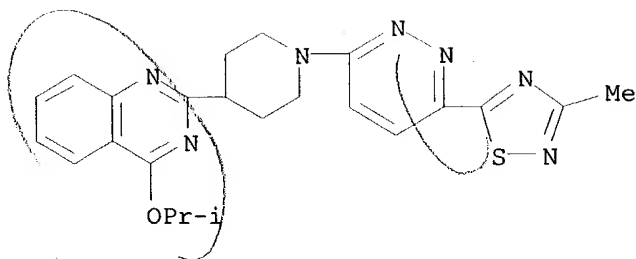
FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9726258	A1	19970724	WO 1997-EP201	19970114
W:	AL, AM, AU, BB, BG, BR, CA, CN, CU, CZ, EE, GE, HU, IL, IS, JP, KG, KR, LC, LK, LR, LT, LV, MD, MG, MN, MX, NO, NZ, PL, RO, SG, SI, SK, TR, TT, UA, US, UZ, VN, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM			
RW:	KE, LS, MW, SD, SZ, UG, AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG			
CA 2237273	AA	19970724	CA 1997-2237273	19970114
AU 9714439	A1	19970811	AU 1997-14439	19970114
AU 717744	B2	20000330		
ZA 9700288	A	19980714	ZA 1997-288	19970114
EP 876366	A2	19981111	EP 1997-901059	19970114
EP 876366	B1	20010725		
R:	AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, PT, IE, SI, LT, LV, FI, RO			
CN 1208415	A	19990217	CN 1997-191705	19970114
CN 1104430	B	20030402		
JP 2000503014	T2	20000314	JP 1997-524656	19970114
IL 124461	A1	20000726	IL 1997-124461	19970114
AT 203534	E	20010815	AT 1997-901059	19970114
ES 2162235	T3	20011216	ES 1997-901059	19970114
PT 876366	T	20020130	PT 1997-97901059	19970114
TW 480256	B	20020321	TW 1997-86100703	19970123
NO 9802037	A	19980915	NO 1998-2037	19980505
US 5985878	A	19991116	US 1998-119075	19980709
GR 3036900	T3	20020131	GR 2001-401770	20011016
PRIORITY APPLN. INFO.:			EP 1996-200085	A 19960115
			EP 1997-901059	A 19970114
			WO 1997-EP201	W 19970114
OTHER SOURCE(S):	MARPAT 127:176434			
ED	Entered STN: 20 Aug 1997			
GI				



- AB Title compds. I [R1 = H, alkyl, alkoxy, alkylthio, amino, aryl, cycloalkyl, CH2OH, CH2OCH2Ph; R2, R3 = H; R2R3 = CH:CHCH:CH; NR4R5 = heterocyclic] were prepd. Thus, 3-chloro-6-methylpyridazine was treated with SOCl2 and HN:CHMeNH2.HCl to give the chloropyridazinylthiadiazole which was treated with 1-(3-trifluoromethylphenyl)piperazine to give I [R1 = Me, R2, R3 = H, NR4R5 = 4-(3-trifluoromethylphenyl)piperazino]. This compd. had an in vitro angiogenesis inhibiting IC50 of 0.3 nM.
- IT **193956-99-9P**
 RL: SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
 (prepn. of thiadiazolylpyrazinylamines as angiogenesis inhibitors)
- RN 193956-99-9 CAPLUS
- CN Quinazoline, 4-(1-methylethoxy)-2-[1-[6-(3-methyl-1,2,4-thiadiazol-5-yl)-3-pyridazinyl]-4-piperidinyl]- (9CI) (CA INDEX NAME)



L10 ANSWER 14 OF 38 CAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 1997:698528 CAPLUS

DOCUMENT NUMBER: 128:43409

TITLE: In vitro characterization of potency, affinity and selectivity of H3-antagonists: from thioperamide to thioperamide unrelated imidazole derivatives

AUTHOR(S): Barocelli, Elisabetta; Ballabeni, Vigilio; Caretta, Antonio; Bertoni, Simona; Bordi, Fabrizio; Rivara, Silvia; Silva, Claudia; Mor, Marco; Impicciatore, Mariannina

CORPORATE SOURCE: Istituto di Farmacologia e Farmacognosia, Facolta di Farmacia, Universita degli Studi di Parma, Parma, 43100, Italy

SOURCE: Farmaco (1997), 52(6-7), 463-469

CODEN: FRMCE8; ISSN: 0014-827X

PUBLISHER: Societa Chimica Italiana

DOCUMENT TYPE: Journal

LANGUAGE: English

ED Entered STN: 06 Nov 1997

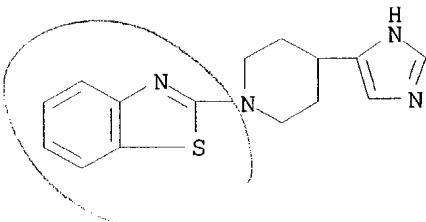
AB This paper summarizes the findings obtained for three different series of original compds. designed as potential H3-antagonists starting from thioperamide structure. The compds. were tested in functional and binding assays to est. their potency, affinity and selectivity for histamine H3 receptors. Among them, many non-thiourea/isothiurea derivs. acted as selective H3 competitive antagonists and, particularly, 4(5)-[2-[4(5)-cyclohexylimidazol-2-ylthio]ethyl] imidazole proved to be the most potent H3 blocker vs. (R)-.alpha.-methylhistamine in elec.-stimulated ileum. This imidazole deriv., devoid of thiourea dependent toxic effects, with high affinity displaced biphasically [3H]-N.alpha.-methylhistamine bound to rat brain H3 sites. Thus, such compd. could be proposed as the prototype mol. for the development of new non-thiourea/isothiurea H3-antagonists and as exptl. tool to explore the intriguing question of H3 receptor heterogeneity.

IT 146365-89-1

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); PRP (Properties); BIOL (Biological study)
(affinity, potency and selectivity of thioperamide and imidazole derivs. as H3-antagonists)

RN 146365-89-1 CAPLUS

CN Benzothiazole, 2-[4-(1H-imidazol-4-yl)-1-piperidinyl]- (9CI) (CA INDEX NAME)



REFERENCE COUNT: 35 THERE ARE 35 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

110 ANSWER 15 OF 38 CAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 1996:632188 CAPLUS

DOCUMENT NUMBER: 125:275893

TITLE: Preparation of 1-(benzimidazolyl)piperidine 5-HT4 and/or 5-HT3 receptor antagonists

INVENTOR(S): Even, Luc; Jegham, Samir; Defosse, Gerard; Aletru, Michel

PATENT ASSIGNEE(S): Synthelabo S. A., Fr.

SOURCE: Eur. Pat. Appl., 14 pp.

CODEN: EPXXDW

DOCUMENT TYPE: Patent

LANGUAGE: French

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 732334	A1	19960918	EP 1996-400452	19960304
R: AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LI, LU, NL, PT, SE				
FR 2731708	A1	19960920	FR 1995-2863	19950313
FR 2731708	B1	19970430		
ZA 9601994	A	19960903	ZA 1996-1994	19960312
CA 2171579	AA	19960914	CA 1996-2171579	19960312
NO 9601000	A	19960916	NO 1996-1000	19960312
AU 9648008	A1	19960926	AU 1996-48008	19960312
JP 08269058	A2	19961015	JP 1996-54560	19960312
CN 1140174	A	19970115	CN 1996-107315	19960312

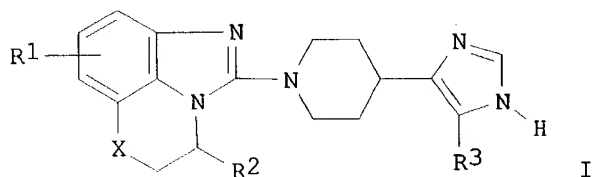
PRIORITY APPLN. INFO.:

FR 1995-2863 19950313

OTHER SOURCE(S): MARPAT 125:275893

ED Entered STN: 26 Oct 1996

GI



AB The title compds. (I; R1 = Cl, F, Me, MeO, NH2; R2, R3 = H, Me; X = O, CH2) (e.g., R1 = 8-Cl, R2 = R3 = H, X = O, hydrochloride salt; m.p. 275.degree.), useful as 5-HT4 and/or 5-HT3 receptor antagonists (e.g., I demonstrate a IC50 of 0.02-2 .mu.M against [3H]-GR 113808), are prepd.

IT 182264-50-2P 182264-52-4P 182264-54-6P

182264-56-8P 182264-57-9P 182264-59-1P

182264-61-5P 182264-63-7P 182264-65-9P

182264-67-1P 182264-69-3P 182264-70-6P

182264-73-9P 182264-75-1P 182264-77-3P

182264-80-8P

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

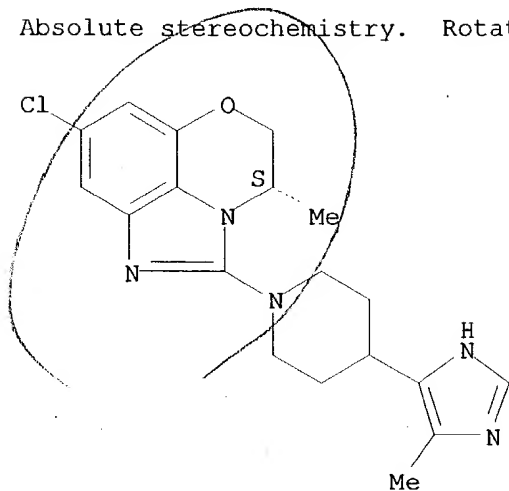
(prepn. of 1-(benzimidazolyl)piperidine 5-HT4 and/or 5-HT3 receptor antagonists)

RN 182264-50-2 CAPLUS

CN Imidazo[1,5,4-de][1,4]benzoxazine, 8-chloro-4,5-dihydro-4-methyl-2-[4-(5-

methyl-1H-imidazol-4-yl)-1-piperidinyl]-, (S)- (9CI) (CA INDEX NAME)

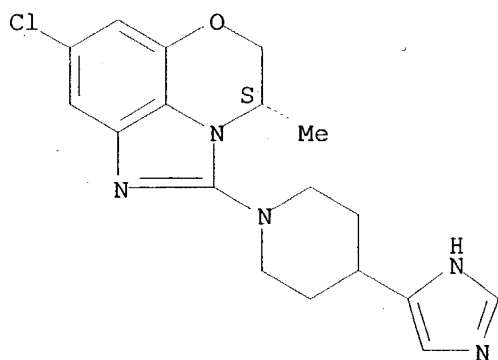
Absolute stereochemistry. Rotation (-).



RN 182264-52-4 CAPLUS

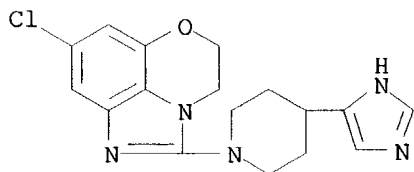
CN Imidazo[1,5,4-de][1,4]benzoxazine, 8-chloro-4,5-dihydro-2-[4-(1H-imidazol-4-yl)-1-piperidinyl]-4-methyl-, (S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (-).



RN 182264-54-6 CAPLUS

CN Imidazo[1,5,4-de][1,4]benzoxazine, 8-chloro-4,5-dihydro-2-[4-(1H-imidazol-4-yl)-1-piperidinyl]-, monohydrochloride (9CI) (CA INDEX NAME)

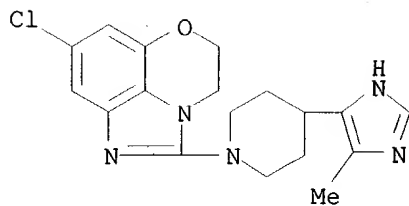


● HCl

RN 182264-56-8 CAPLUS

CN Imidazo[1,5,4-de][1,4]benzoxazine, 8-chloro-4,5-dihydro-2-[4-(5-methyl-1H-imidazol-4-yl)-1-piperidinyl]-, monohydrochloride, (S)- (9CI) (CA INDEX NAME)

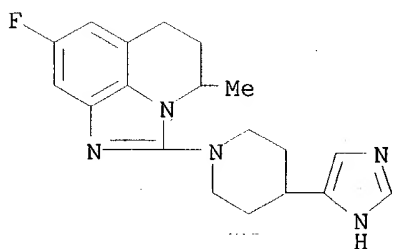
NAME)



● HCl

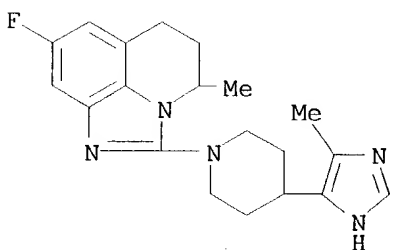
RN 182264-57-9 CAPLUS

CN 4H-Imidazo[4,5,1-ij]quinoline, 8-fluoro-5,6-dihydro-2-[4-(1H-imidazol-4-yl)-1-piperidinyl]-4-methyl-, (S)- (9CI) (CA INDEX NAME)



RN 182264-59-1 CAPLUS

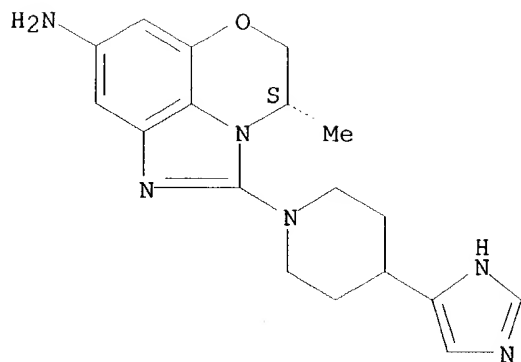
CN 4H-Imidazo[4,5,1-ij]quinoline, 8-fluoro-5,6-dihydro-4-methyl-2-[4-(5-methyl-1H-imidazol-4-yl)-1-piperidinyl]-, (S)- (9CI) (CA INDEX NAME)



RN 182264-61-5 CAPLUS

CN Imidazo[1,5,4-de][1,4]benzoxazin-8-amine, 4,5-dihydro-2-[4-(1H-imidazol-4-yl)-1-piperidinyl]-4-methyl-, (S)- (9CI) (CA INDEX NAME)

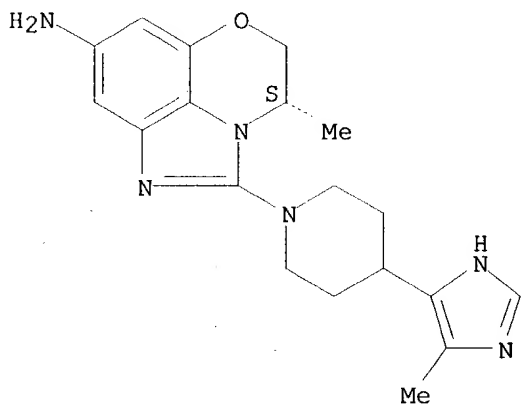
Absolute stereochemistry. Rotation (-).



RN 182264-63-7 CAPLUS

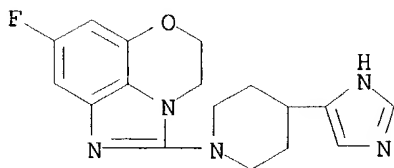
CN Imidazo[1,5,4-de][1,4]benzoxazin-8-amine, 4,5-dihydro-4-methyl-2-[4-(5-methyl-1H-imidazol-4-yl)-1-piperidinyl]-, (S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (-).



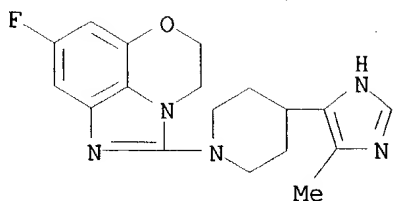
RN 182264-65-9 CAPLUS

CN Imidazo[1,5,4-de][1,4]benzoxazine, 8-fluoro-4,5-dihydro-2-[4-(1H-imidazol-4-yl)-1-piperidinyl]- (9CI) (CA INDEX NAME)



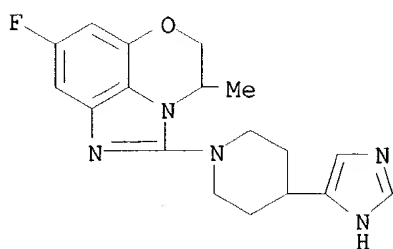
RN 182264-67-1 CAPLUS

CN Imidazo[1,5,4-de][1,4]benzoxazine, 8-fluoro-4,5-dihydro-2-[4-(5-methyl-1H-imidazol-4-yl)-1-piperidinyl]- (9CI) (CA INDEX NAME)



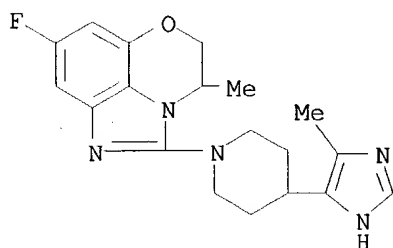
RN 182264-69-3 CAPLUS

CN Imidazo[1,5,4-de][1,4]benzoxazine, 8-fluoro-4,5-dihydro-2-[4-(1H-imidazol-4-yl)-1-piperidinyl]-4-methyl- (9CI) (CA INDEX NAME)



RN 182264-70-6 CAPLUS

CN Imidazo[1,5,4-de][1,4]benzoxazine, 8-fluoro-4,5-dihydro-4-methyl-2-[4-(5-methyl-1H-imidazol-4-yl)-1-piperidinyl]- (9CI) (CA INDEX NAME)



RN 182264-73-9 CAPLUS

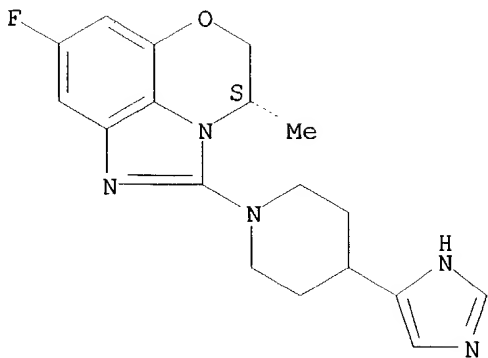
CN Imidazo[1,5,4-de][1,4]benzoxazine, 8-fluoro-4,5-dihydro-2-[4-(1H-imidazol-4-yl)-1-piperidinyl]-4-methyl-, (4S)-, (2Z)-2-butenedioate (1:1) (9CI) (CA INDEX NAME)

CM 1

CRN 182264-72-8

CMF C18 H20 F N5 O

Absolute stereochemistry. Rotation (+).

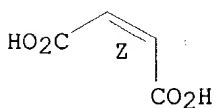


CM 2

CRN 110-16-7

CMF C4 H4 O4

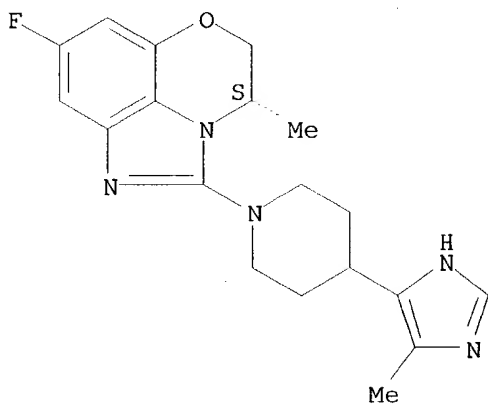
Double bond geometry as shown.



RN 182264-75-1 CAPLUS

CN Imidazo[1,5,4-de][1,4]benzoxazine, 8-fluoro-4,5-dihydro-4-methyl-2-[4-(5-methyl-1H-imidazol-4-yl)-1-piperidinyl]-, (S)- (9CI) (CA INDEX NAME)

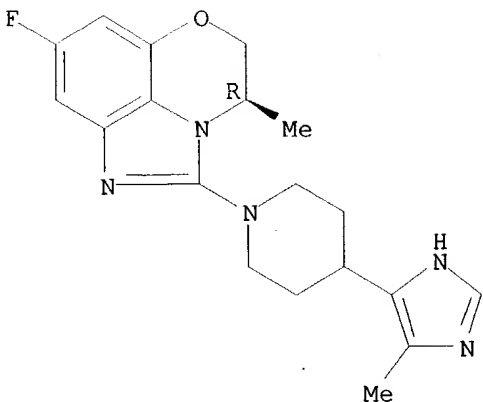
Absolute stereochemistry. Rotation (-).



RN 182264-77-3 CAPLUS

CN Imidazo[1,5,4-de][1,4]benzoxazine, 8-fluoro-4,5-dihydro-4-methyl-2-[4-(5-methyl-1H-imidazol-4-yl)-1-piperidinyl]-, (R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).

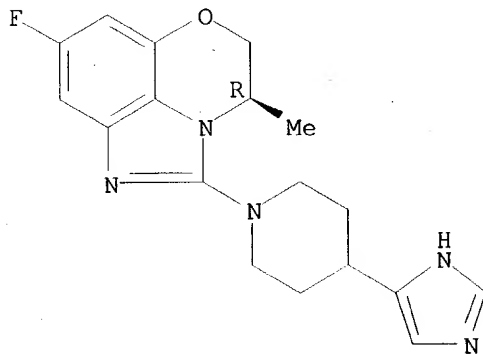


RN 182264-80-8 CAPLUS
 CN Imidazo[1,5,4-de][1,4]benzoxazine, 8-fluoro-4,5-dihydro-2-[4-(1H-imidazol-4-yl)-1-piperidiny]-4-methyl-, (4R)-, (2Z)-2-butenedioate (1:1) (9CI)
 (CA INDEX NAME)

CM 1

CRN 182264-79-5
 CMF C18 H20 F N5 O

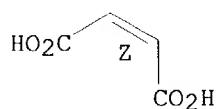
Absolute stereochemistry. Rotation (-).



CM 2

CRN 110-16-7
 CMF C4 H4 O4

Double bond geometry as shown.

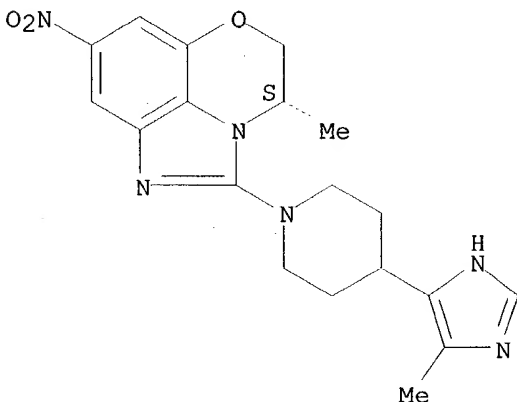


IT 182265-01-6P
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
 (Reactant or reagent)
 (prepn. of 1-(benzimidazolyl)piperidine 5-HT4 and/or 5-HT3 receptor)

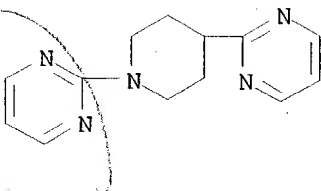
antagonists)

RN 182265-01-6 CAPLUS
CN Imidazo[1,5,4-de][1,4]benzoxazine, 4,5-dihydro-4-methyl-2-[4-(5-methyl-1H-imidazol-4-yl)-1-piperidinyl]-8-nitro-, (S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



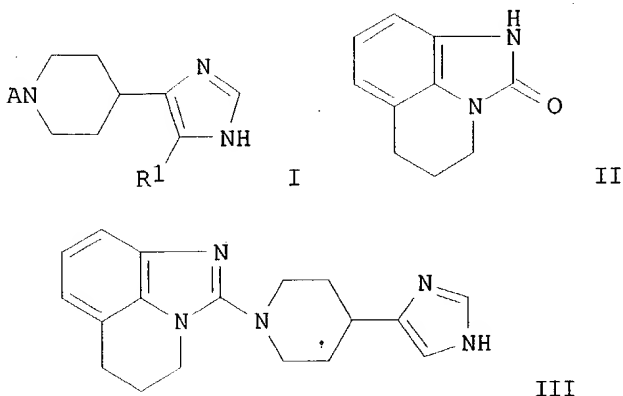
L10 ANSWER 16 OF 38 CAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 1996:407459 CAPLUS
DOCUMENT NUMBER: 125:96333
TITLE: Assay and purity control of new serotonergic
anxiolytics by HPTLC and scanning densitometry
AUTHOR(S): Farina, Anna; Doldo, Antonio; Cotichini, Viviana;
Rajevic, Maya
CORPORATE SOURCE: Lab. Chimica Farmaco, Ist. Sup. Sanita, Rome, 00161,
Italy
SOURCE: Journal of Planar Chromatography--Modern TLC (1996),
9(3), 185-188
CODEN: JPCTE5; ISSN: 0933-4173
PUBLISHER: Research Institute for Medicinal Plants
DOCUMENT TYPE: Journal
LANGUAGE: English
ED Entered STN: 13 Jul 1996
AB A high-performance TLC (HPTLC) method with densitometric UV detection was
used for the detn. and purity control of serotonergic anxiolytics. With
silica gel as adsorbent and 3 different mobile phases, all the potential
impurities were well sep'd. from the main components and from each other.
Detection limits of a few nanograms were obtained at a signal-to-noise
ratio 3:1. The relative std. deviation values for the main components and
related impurities were between 2.2 and 3.4%. The results obtained were
compared with those obtained by a previously established HPLC method.
IT 178948-99-7
RL: ANT (Analyte); ANST (Analytical study)
(purity control of serotonergic anxiolytics by HPTLC and densitometry)
RN 178948-99-7 CAPLUS
CN Pyrimidine, 2,2'-(1,4-piperidinediyl)bis- (9CI) (CA INDEX NAME)



110- ANSWER 17 OF 38 CAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 1995:557370 CAPLUS
DOCUMENT NUMBER: 122:290862
TITLE: Derivatives of imidazol-4-ylpiperidine with 5-HT3 and 5-HT4 activity, their preparation, and their use in therapy.
INVENTOR(S): Jegham, Samir; Defosse, Gerard; Purcell, Thomas Andrew; Even, Luc
PATENT ASSIGNEE(S): Synthelabo S. A., Fr.
SOURCE: Eur. Pat. Appl., 17 pp.
CODEN: EPXXDW
DOCUMENT TYPE: Patent
LANGUAGE: French
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 646583	A1	19950405	EP 1994-402114	19940923
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LI, LU, MC, NL, PT, SE				
FR 2710915	A1	19950414	FR 1993-11771	19931004
FR 2710915	B1	19951124		
CA 2133491	AA	19950405	CA 1994-2133491	19941003
NO 9403682	A	19950405	NO 1994-3682	19941003
FI 9404600	A	19950405	FI 1994-4600	19941003
AU 9474329	A1	19950413	AU 1994-74329	19941003
JP 07179466	A2	19950718	JP 1994-238914	19941003
ZA 9407710	A	19950810	ZA 1994-7710	19941003
CN 1109471	A	19951004	CN 1994-117012	19941003
HU 71120	A2	19951128	HU 1994-2832	19941003
US 5589476	A	19961231	US 1994-317661	19941003
PRIORITY APPLN. INFO.:			FR 1993-11771	19931004

OTHER SOURCE(S): CASREACT 122:290862; MARPAT 122:290862
ED Entered STN: 18 May 1995
GI



AB Title compds. I [R1 = H, straight or branched C1-6 alkyl; A = 9 specific tricyclic heterocyclic radicals with an optional phenylmethyl substituent] and their pharmaceutical salts are claimed. The compds. are ligands of 5-HT3 and 5-HT4 receptors, and have a variety of potential uses involving CNS and cardiovascular activities. For example, redn. of 8-quinolinamine with Na in EtOH gave the 1,2,3,4-tetrahydro deriv., which was cyclized

with urea to give dihydroimidazoquinolinone II. Treatment of II with POCl₃ converted the carbonyl to the corresponding unsatd. chloride, which reacted with 4-(1H-imidazol-4-yl)piperidine in isoamyl alc. at 120.degree. to give title compd. III. The IC₅₀ values of more active I for inhibition of [3H]-quipazine binding to rat cerebral 5-HT₃ receptors were 0.01-10 nM. I also had IC₅₀ of 0.02-2 .mu.M for inhibition of specific binding of [3H]-GR118808 to guinea pig 5-HT₄ receptors.

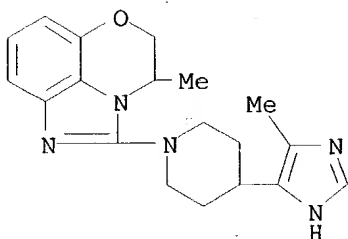
IT 163120-16-9P 163120-26-1P 163120-32-9P
163120-34-1P 163120-36-3P 163120-38-5P
163120-40-9P 163120-42-1P 163120-44-3P

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); RCT (Reactant); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent); USES (Uses)

(prepn. of imidazolylpiperidine derivs. as 5-HT₃ and 5-HT₄ receptor ligands)

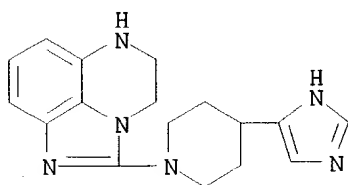
RN 163120-16-9 CAPLUS

CN Imidazo[1,5,4-de][1,4]benzoxazine, 4,5-dihydro-4-methyl-2-[4-(5-methyl-1H-imidazol-4-yl)-1-piperidinyl]- (9CI) (CA INDEX NAME)



RN 163120-26-1 CAPLUS

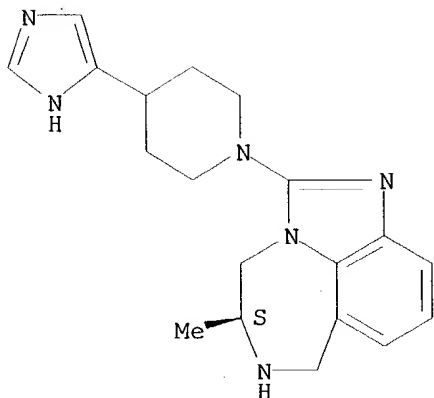
CN 4H-Imidazo[1,5,4-de]quinoxaline, 5,6-dihydro-2-[4-(1H-imidazol-4-yl)-1-piperidinyl]- (9CI) (CA INDEX NAME)



RN 163120-32-9 CAPLUS

CN Imidazo[4,5,1-jk][1,4]benzodiazepine, 4,5,6,7-tetrahydro-2-[4-(1H-imidazol-4-yl)-1-piperidinyl]-5-methyl-, (S)- (9CI) (CA INDEX NAME)

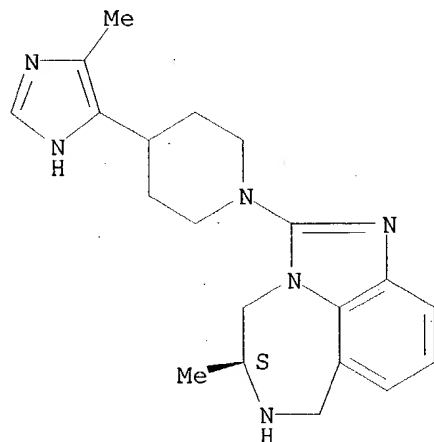
Absolute stereochemistry.



RN 163120-34-1 CAPLUS

CN Imidazo[4,5,1-jk][1,4]benzodiazepine, 4,5,6,7-tetrahydro-5-methyl-2-[4-(5-methyl-1H-imidazol-4-yl)-1-piperidinyl]-, (S)- (9CI) (CA INDEX NAME)

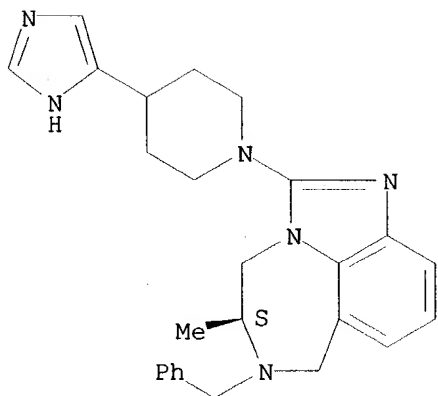
Absolute stereochemistry.



RN 163120-36-3 CAPLUS

CN Imidazo[4,5,1-jk][1,4]benzodiazepine, 4,5,6,7-tetrahydro-2-[4-(1H-imidazol-4-yl)-1-piperidinyl]-5-methyl-6-(phenylmethyl)-, (S)- (9CI) (CA INDEX NAME)

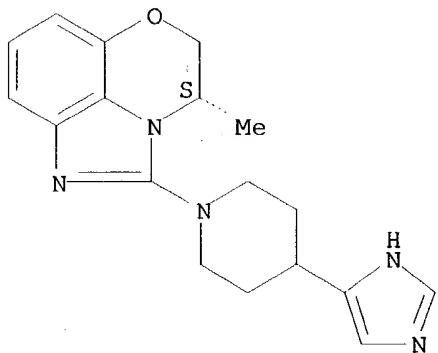
Absolute stereochemistry.



RN 163120-38-5 CAPLUS

CN Imidazo[1,5,4-de][1,4]benzoxazine, 4,5-dihydro-2-[4-(1H-imidazol-4-yl)-1-piperidinyl]-4-methyl-, (S)- (9CI) (CA INDEX NAME)

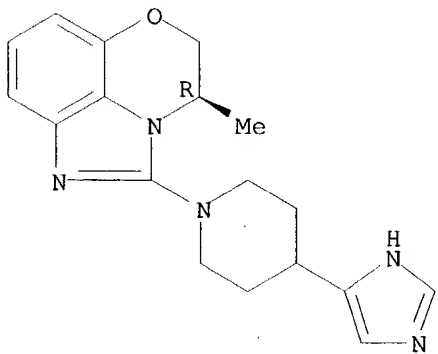
Absolute stereochemistry.



RN 163120-40-9 CAPLUS

CN Imidazo[1,5,4-de][1,4]benzoxazine, 4,5-dihydro-2-[4-(1H-imidazol-4-yl)-1-piperidinyl]-4-methyl-, (R)- (9CI) (CA INDEX NAME)

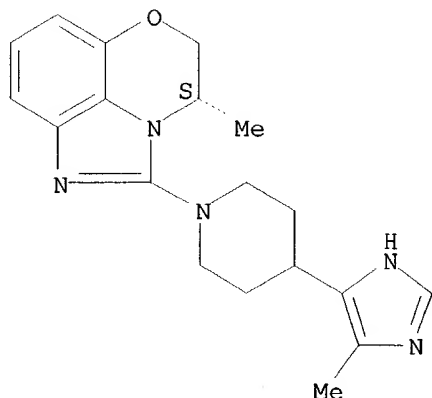
Absolute stereochemistry.



RN 163120-42-1 CAPLUS

CN Imidazo[1,5,4-de][1,4]benzoxazine, 4,5-dihydro-4-methyl-2-[4-(5-methyl-1H-imidazol-4-yl)-1-piperidinyl]-, (S)- (9CI) (CA INDEX NAME)

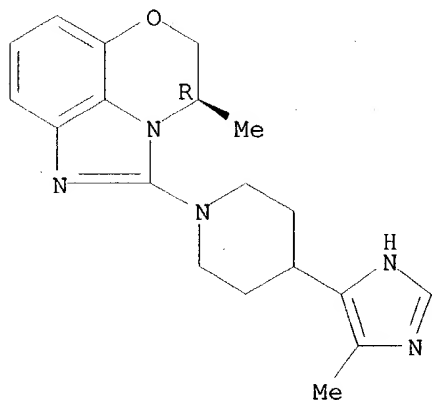
Absolute stereochemistry.



RN 163120-44-3 CAPLUS

CN Imidazo[1,5,4-de][1,4]benzoxazine, 4,5-dihydro-4-methyl-2-[4-(5-methyl-1H-imidazol-4-yl)-1-piperidinyl]-, (R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

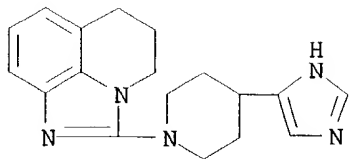


IT 163120-06-7P 163120-07-8P 163120-08-9P
163120-09-0P 163120-11-4P 163120-13-6P
163120-15-8P 163120-17-0P 163120-19-2P
163120-21-6P 163120-22-7P 163120-23-8P
163120-25-0P 163120-27-2P 163120-29-4P
163120-30-7P 163120-31-8P 163120-33-0P
163120-35-2P 163120-37-4P 163120-39-6P
163120-41-0P 163120-43-2P 163120-45-4P
163120-46-5P 163120-47-6P

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(prepn. of imidazolylpiperidine derivs. as 5-HT3 and 5-HT4 receptor ligands)

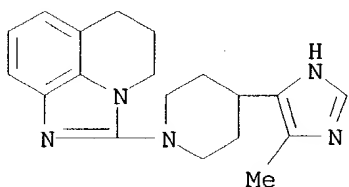
RN 163120-06-7 CAPLUS

CN 4H-Imidazo[4,5,1-ij]quinoline, 5,6-dihydro-2-[4-(1H-imidazol-4-yl)-1-piperidinyl]- (9CI) (CA INDEX NAME)



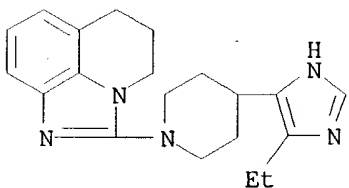
RN 163120-07-8 CAPLUS

CN 4H-Imidazo[4,5,1-ij]quinoline, 5,6-dihydro-2-[4-(5-methyl-1H-imidazol-4-yl)-1-piperidinyl]- (9CI) (CA INDEX NAME)



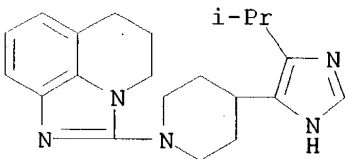
RN 163120-08-9 CAPLUS

CN 4H-Imidazo[4,5,1-ij]quinoline, 2-[4-(5-ethyl-1H-imidazol-4-yl)-1-piperidinyl]-5,6-dihydro- (9CI) (CA INDEX NAME)



RN 163120-09-0 CAPLUS

CN 4H-Imidazo[4,5,1-ij]quinoline, 5,6-dihydro-2-[4-[5-(1-methylethyl)-1H-imidazol-4-yl]-1-piperidinyl]- (9CI) (CA INDEX NAME)



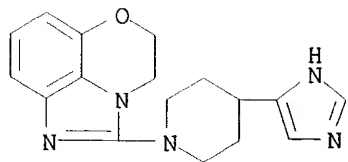
RN 163120-11-4 CAPLUS

CN Imidazo[1,5,4-de][1,4]benzoxazine, 4,5-dihydro-2-[4-(1H-imidazol-4-yl)-1-piperidinyl]-, (2Z)-2-butenedioate (1:2) (9CI) (CA INDEX NAME)

CM 1

CRN 163120-10-3

CMF C17 H19 N5 O

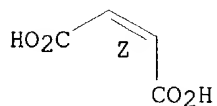


CM 2

CRN 110-16-7

CMF C4 H4 O4

Double bond geometry as shown.



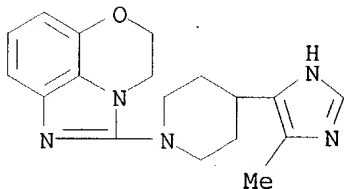
RN 163120-13-6 CAPLUS

CN Imidazo[1,5,4-de][1,4]benzoxazine, 4,5-dihydro-2-[4-(5-methyl-1H-imidazol-4-yl)-1-piperidinyl]-, (2Z)-2-butenedioate (1:2) (9CI) (CA INDEX NAME)

CM 1

CRN 163120-12-5

CMF C18 H21 N5 O

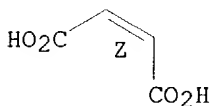


CM 2

CRN 110-16-7

CMF C4 H4 O4

Double bond geometry as shown.



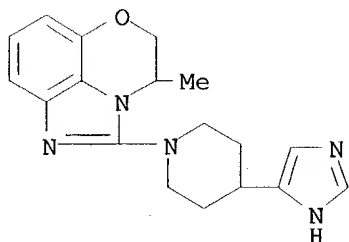
RN 163120-15-8 CAPLUS

CN Imidazo[1,5,4-de][1,4]benzoxazine, 4,5-dihydro-2-[4-(1H-imidazol-4-yl)-1-piperidinyl]-4-methyl-, (2Z)-2-butenedioate (1:2) (9CI) (CA INDEX NAME)

CM 1

CRN 163120-14-7

CMF C18 H21 N5 O

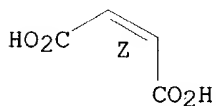


CM 2

CRN 110-16-7

CMF C4 H4 O4

Double bond geometry as shown.



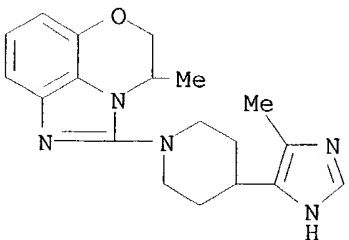
RN 163120-17-0 CAPLUS

CN Imidazo[1,5,4-de][1,4]benzoxazine, 4,5-dihydro-4-methyl-2-[4-(5-methyl-1H-imidazol-4-yl)-1-piperidinyl]-, (2Z)-2-butenedioate (1:2) (9CI) (CA INDEX NAME)

CM 1

CRN 163120-16-9

CMF C19 H23 N5 O

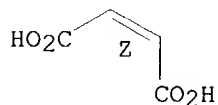


CM 2

CRN 110-16-7

CMF C4 H4 O4

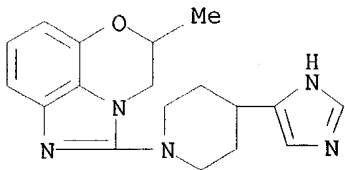
Double bond geometry as shown.



RN 163120-19-2 CAPLUS
CN Imidazo[1,5,4-de][1,4]benzoxazine, 4,5-dihydro-2-[4-(1H-imidazol-4-yl)-1-piperidiny]-5-methyl-, (2Z)-2-butenedioate (1:2) (9CI) (CA INDEX NAME)

CM 1

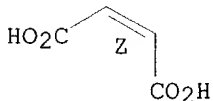
CRN 163120-18-1
CMF C18 H21 N5 O



CM 2

CRN 110-16-7
CMF C4 H4 O4

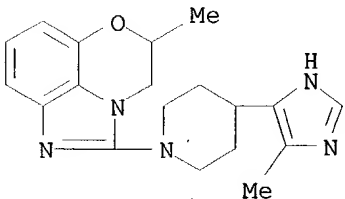
Double bond geometry as shown.



RN 163120-21-6 CAPLUS
CN Imidazo[1,5,4-de][1,4]benzoxazine, 4,5-dihydro-5-methyl-2-[4-(5-methyl-1H-imidazol-4-yl)-1-piperidiny]-, ethanedioate (1:2) (9CI) (CA INDEX NAME)

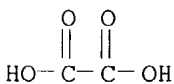
CM 1

CRN 163120-20-5
CMF C19 H23 N5 O



CM 2

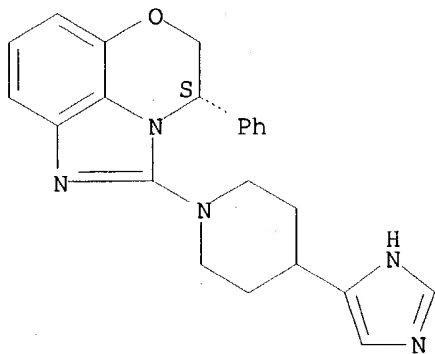
CRN 144-62-7
CMF C2 H2 O4



RN 163120-22-7 CAPLUS

CN Imidazo[1,5,4-de][1,4]benzoxazine, 4,5-dihydro-2-[4-(1H-imidazol-4-yl)-1-piperidinyl]-4-phenyl-, (S)- (9CI) (CA INDEX NAME)

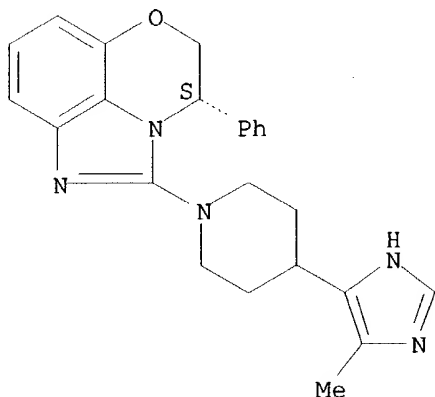
Absolute stereochemistry.



RN 163120-23-8 CAPLUS

CN Imidazo[1,5,4-de][1,4]benzoxazine, 4,5-dihydro-2-[4-(5-methyl-1H-imidazol-4-yl)-1-piperidinyl]-4-phenyl-, (S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 163120-25-0 CAPLUS

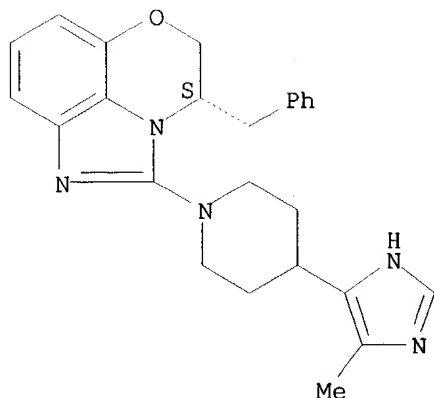
CN Imidazo[1,5,4-de][1,4]benzoxazine, 4,5-dihydro-2-[4-(5-methyl-1H-imidazol-4-yl)-1-piperidinyl]-4-(phenylmethyl)-, (4S)-, (2E)-2-butenedioate (1:1) (9CI) (CA INDEX NAME)

CM 1

CRN 163120-24-9

CMF C25 H27 N5 O

Absolute stereochemistry.

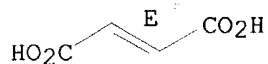


CM 2

CRN 110-17-8

CMF C4 H4 O4

Double bond geometry as shown.



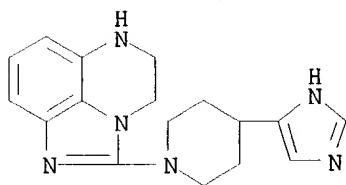
RN 163120-27-2 CAPLUS

CN 4H-Imidazo[1,5,4-de]quinoxaline, 5,6-dihydro-2-[4-(1H-imidazol-4-yl)-1-piperidinyl]-, ethanedioate (2:3) (9CI) (CA INDEX NAME)

CM 1

CRN 163120-26-1

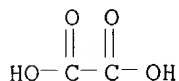
CMF C17 H20 N6



CM 2

CRN 144-62-7

CMF C2 H2 O4



RN 163120-29-4 CAPLUS

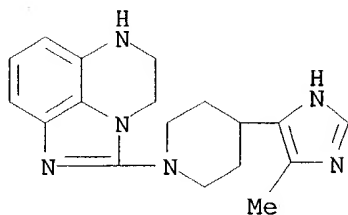
CN 4H-Imidazo[1,5,4-de]quinoxaline, 5,6-dihydro-2-[4-(5-methyl-1H-imidazol-4-

yl)-1-piperidiny]-, ethanedioate (1:1) (9CI) (CA INDEX NAME)

CM 1

CRN 163120-28-3

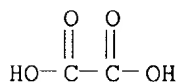
CMF C18 H22 N6



CM 2

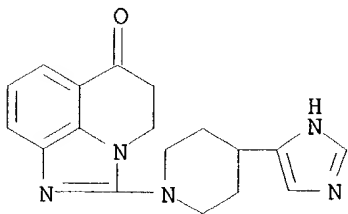
CRN 144-62-7

CMF C2 H2 O4



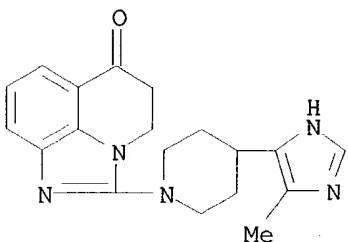
RN 163120-30-7 CAPLUS

CN 6H-Imidazo[4,5,1-ij]quinolin-6-one, 4,5-dihydro-2-[4-(1H-imidazol-4-yl)-1-piperidiny]- (9CI) (CA INDEX NAME)



RN 163120-31-8 CAPLUS

CN 6H-Imidazo[4,5,1-ij]quinolin-6-one, 4,5-dihydro-2-[4-(5-methyl-1H-imidazol-4-yl)-1-piperidiny]- (9CI) (CA INDEX NAME)



RN 163120-33-0 CAPLUS

CN Imidazo[4,5,1-jk][1,4]benzodiazepine, 4,5,6,7-tetrahydro-2-[4-(1H-imidazol-

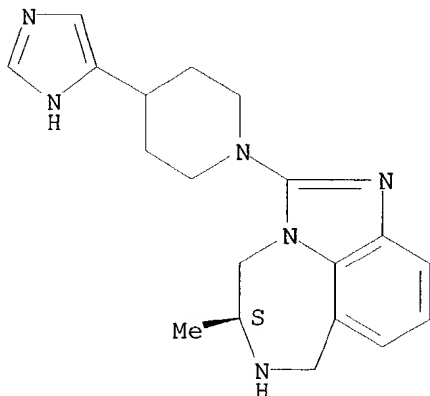
4-yl)-1-piperidinyl]-5-methyl-, (5S)-, (2Z)-2-butenedioate (1:3) (9CI)
(CA INDEX NAME)

CM 1

CRN 163120-32-9

CMF C19 H24 N6

Absolute stereochemistry.

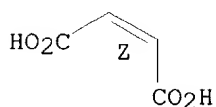


CM 2

CRN 110-16-7

CMF C4 H4 O4

Double bond geometry as shown.



RN 163120-35-2 CAPLUS

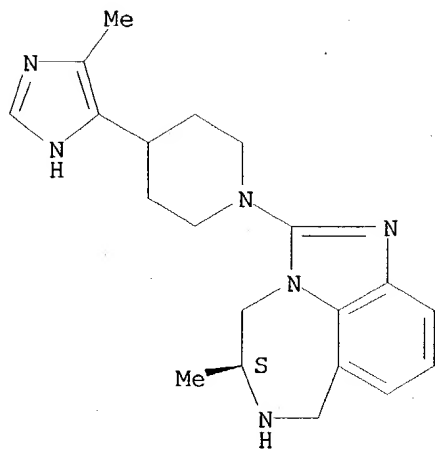
CN Imidazo[4,5,1-jk][1,4]benzodiazepine, 4,5,6,7-tetrahydro-5-methyl-2-[4-(5-methyl-1H-imidazol-4-yl)-1-piperidinyl]-, (5S)-, (2E)-2-butenedioate (1:2) (9CI) (CA INDEX NAME)

CM 1

CRN 163120-34-1

CMF C20 H26 N6

Absolute stereochemistry.



CM 2

CRN 110-17-8

CMF C4 H4 O4

Double bond geometry as shown.



RN 163120-37-4 CAPLUS

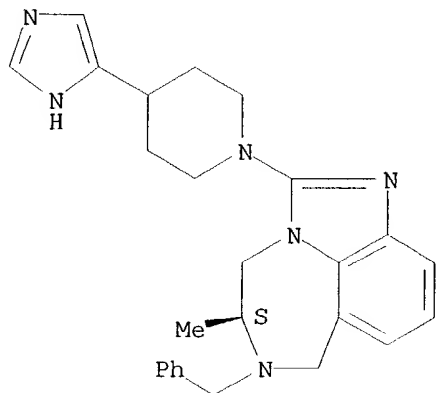
CN Imidazo[4,5,1-jk][1,4]benzodiazepine, 4,5,6,7-tetrahydro-2-[4-(1H-imidazol-4-yl)-1-piperidiny]-5-methyl-6-(phenylmethyl)-, (5S)-, (2Z)-2-butenedioate (1:2) (9CI) (CA INDEX NAME)

CM 1

CRN 163120-36-3

CMF C26 H30 N6

Absolute stereochemistry.

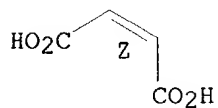


CM 2

CRN 110-16-7

CMF C4 H4 O4

Double bond geometry as shown.

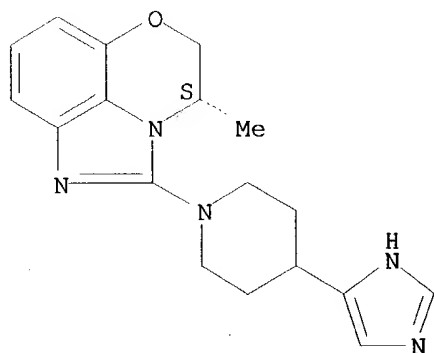


RN 163120-39-6 CAPLUS
CN Imidazo[1,5,4-de][1,4]benzoxazine, 4,5-dihydro-2-[4-(1H-imidazol-4-yl)-1-piperidinyl]-4-methyl-, (4S)-, (2Z)-2-butenedioate (1:2) (9CI) (CA INDEX NAME)

CM 1

CRN 163120-38-5
CMF C18 H21 N5 O

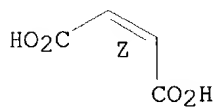
Absolute stereochemistry.



CM 2

CRN 110-16-7
CMF C4 H4 O4

Double bond geometry as shown.

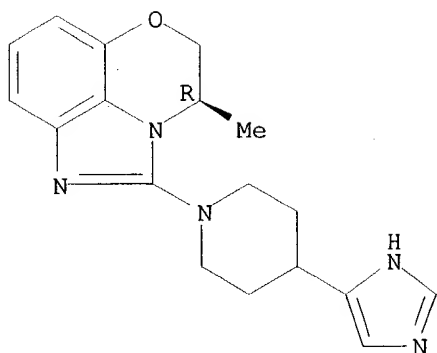


RN 163120-41-0 CAPLUS
CN Imidazo[1,5,4-de][1,4]benzoxazine, 4,5-dihydro-2-[4-(1H-imidazol-4-yl)-1-piperidinyl]-4-methyl-, (4R)-, (2Z)-2-butenedioate (1:2) (9CI) (CA INDEX NAME)

CM 1

CRN 163120-40-9
CMF C18 H21 N5 O

Absolute stereochemistry.

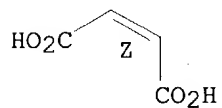


CM 2

CRN 110-16-7

CMF C4 H4 O4

Double bond geometry as shown.



RN 163120-43-2 CAPLUS

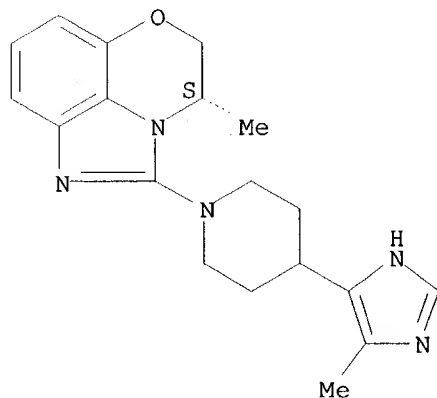
CN Imidazo[1,5,4-de][1,4]benzoxazine, 4,5-dihydro-4-methyl-2-[4-(5-methyl-1H-imidazol-4-yl)-1-piperidinyl]-, (4S)-, (2Z)-2-butenedioate (1:2) (9CI)
(CA INDEX NAME)

CM 1

CRN 163120-42-1

CMF C19 H23 N5 O

Absolute stereochemistry.

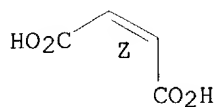


CM 2

CRN 110-16-7

CMF C4 H4 O4

Double bond geometry as shown.

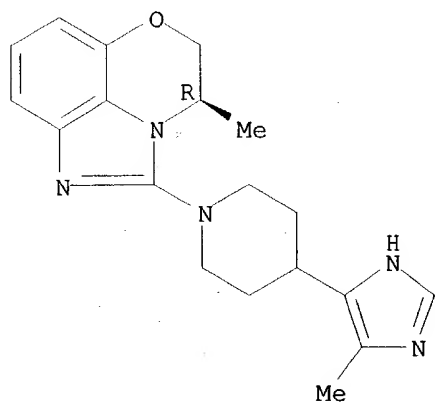


RN 163120-45-4 CAPLUS
CN Imidazo[1,5,4-de][1,4]benzoxazine, 4,5-dihydro-4-methyl-2-[4-(5-methyl-1H-imidazol-4-yl)-1-piperidinyl]-, (4R)-, (2Z)-2-butenedioate (1:2) (9CI)
(CA INDEX NAME)

CM 1

CRN 163120-44-3
CMF C19 H23 N5 O

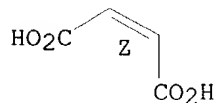
Absolute stereochemistry.



CM 2

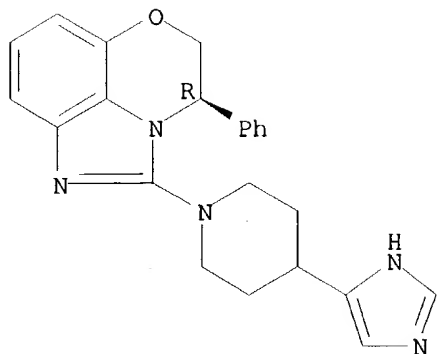
CRN 110-16-7
CMF C4 H4 O4

Double bond geometry as shown.



RN 163120-46-5 CAPLUS
CN Imidazo[1,5,4-de][1,4]benzoxazine, 4,5-dihydro-2-[4-(1H-imidazol-4-yl)-1-piperidinyl]-5-phenyl-, (R)- (9CI) (CA INDEX NAME)

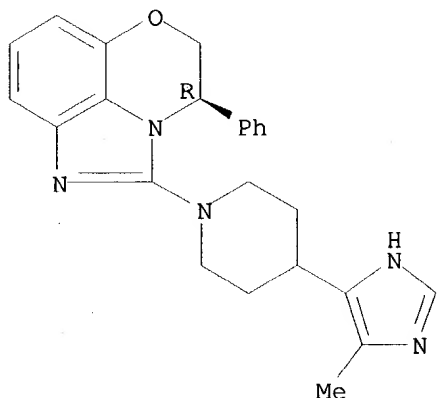
Absolute stereochemistry.



RN 163120-47-6 CAPLUS

CN Imidazo[1,5,4-de][1,4]benzoxazine, 4,5-dihydro-2-[4-(5-methyl-1H-imidazol-4-yl)-1-piperidinyl]-4-phenyl-, (R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



~~110~~ ANSWER 18 OF 38 CAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 1995:989625 CAPLUS

DOCUMENT NUMBER: 124:175944

TITLE: Heteroarylthioethyl and heteroarylthioethylimidazoles . Synthesis and H3-receptor affinity

AUTHOR(S): Plazzi, P. V.; Bordi, F.; Mor, M.; Silva, C.; Morini, G.; Caretta, A.; Barocelli, E.; Vitali, T.

CORPORATE SOURCE: Dip. Farmaceutico, Univ. Studi Parma, Parma, 43100, Italy

SOURCE: European Journal of Medicinal Chemistry (1995), 30(11), 881-9

CODEN: EJMCA5; ISSN: 0223-5234

PUBLISHER: Elsevier

DOCUMENT TYPE: Journal

LANGUAGE: English

ED Entered STN: 19 Dec 1995

AB The synthesis of new H3-receptor antagonists, 4-(2-heteroarylthioethyl)- and 4-(2-heteroarylthioethyl)imidazoles and their H3-receptor affinity obtained from competitive binding curves vs [3H]-N.alpha.-methylhistamine ([3H]NAMHA) on rat brain cortex membranes are described. These compds. are derived from structural modulations of thioperamide and were synthesized in order to study binding interactions with H3-receptors and find alternative lead compds. with H3-receptor antagonist activity. The

new compds. differ from thioperamide by replacing the N-cyclohexylcarbothioamide moiety of thioperamide by a benzothiazole and the piperidine ring by more flexible aminoethyl and thioethyl chains in order to lower the excessive rigidity and to test the importance of the tertiary piperidine nitrogen, and replacing the benzothiazole moiety by other heterocyclic nuclei endowed with different lipophilic, steric and hydrogen-bonding features. Some of the compds. tested showed good affinity for central H3-receptors (pKi range: 5.89-7.96) and can be considered as lead compds. for further optimization studies. The most lipophilic compds. showed higher affinities among benzo-condensed compds., while imidazolylthioethylimidazoles were more potent in displacing [3H]NAMHA than thiazolylthioethyl- and thiazolylaminoethylimidazoles which suggests an interaction between the annular NH of the imidazolylthioethyl moiety and the binding site.

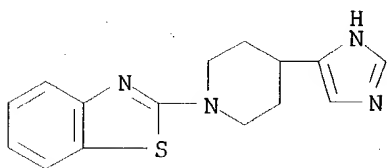
IT 146365-89-1P

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation)

(prepn. and H3-receptor affinity of heteroaryl-amino- and heteroarylthioethylimidazoles)

RN 146365-89-1 CAPLUS

CN Benzothiazole, 2-[4-(1H-imidazol-4-yl)-1-piperidinyl]- (9CI) (CA INDEX NAME)



110 ANSWER 19 OF 38 CAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 1996:495636 CAPLUS

DOCUMENT NUMBER: 125:211804

TITLE: Structural analogs of thioperamide: pharmacological evaluation of new benzothiazole derivatives at

AUTHOR(S): peripheral histamine receptor subtypes in guinea pigs Barocelli, E.; Ballabeni, V.; Chiavarini, M.; Caretta, A.; More, M.; Silva, C.; Impicciatore, M.

CORPORATE SOURCE: Inst. Pharmacology, Pharmacognosy, Dep. Pharmaceutical Chem., Coll. Pharm., Univ. Parma, Parma, Italy

SOURCE: Pharmaceutical Sciences (1995), 1(4), 177-180

CODEN: PHSCFB; ISSN: 1356-6881

PUBLISHER: Royal Pharmaceutical Society of Great Britain

DOCUMENT TYPE: Journal

LANGUAGE: English

ED Entered STN: 20 Aug 1996

AB New thioperamide analogs, derived by the replacement of the cyclohexylcarbothioamide portion with the benzothiazole nucleus, were tested in guinea-pig isolated preps. to assess their H1-, H2- and H3-blocking actions. Various substituents were inserted in position 6 of the benzothiazole ring to investigate whether changes of physicochem. properties of the heteroatom structure could affect drug-receptor interaction. A selective H3 antagonism was exhibited by the unsubstituted benzothiazole deriv. which showed a substantial fall in potency (pA2=7.07) with respect to thioperamide (pA2=9.04). The insertion of small substituents (-NO2, -Br, -CH3) caused only marginal variations in the H3-antagonistic activity, while the introduction of larger groups (-C4H9, -OC4H9, -COC6H5, -COOC2H5) markedly hampered drug-receptor interaction.

The authors conclude that the steric hindrance could account for the low H3-antagonistic activity of the new thioperamide benzothiazole derivs.

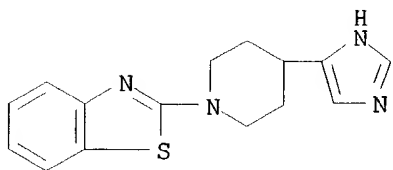
IT 146365-89-1 156246-07-0 156246-08-1
156246-09-2 156246-10-5 156246-11-6
156246-12-7 156246-13-8

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); PRP (Properties); THU (Therapeutic use); BIOL (Biological study); USES (Uses)

(pharmacol. evaluation of new benzothiazole thioperamide analogs as antagonists at peripheral histamine receptor subtypes in guinea pigs)

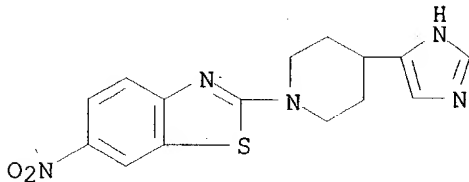
RN 146365-89-1 CAPLUS

CN Benzothiazole, 2-[4-(1H-imidazol-4-yl)-1-piperidinyl]- (9CI) (CA INDEX NAME)



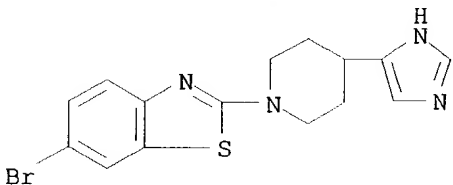
RN 156246-07-0 CAPLUS

CN Benzothiazole, 2-[4-(1H-imidazol-4-yl)-1-piperidinyl]-6-nitro- (9CI) (CA INDEX NAME)



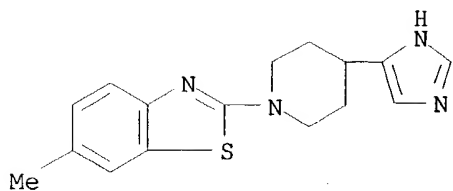
RN 156246-08-1 CAPLUS

CN Benzothiazole, 6-bromo-2-[4-(1H-imidazol-4-yl)-1-piperidinyl]- (9CI) (CA INDEX NAME)



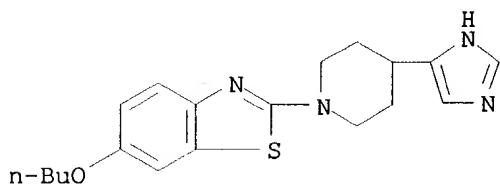
RN 156246-09-2 CAPLUS

CN Benzothiazole, 2-[4-(1H-imidazol-4-yl)-1-piperidinyl]-6-methyl- (9CI) (CA INDEX NAME)



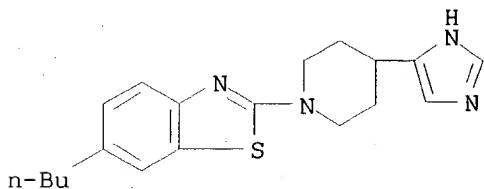
RN 156246-10-5 CAPLUS

CN Benzothiazole, 6-butoxy-2-[4-(1H-imidazol-4-yl)-1-piperidinyl]- (9CI) (CA INDEX NAME)



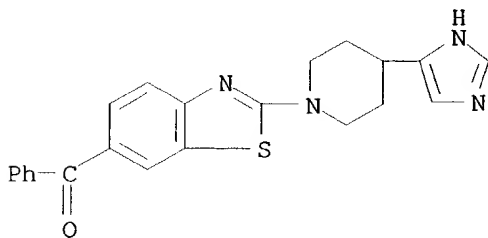
RN 156246-11-6 CAPLUS

CN Benzothiazole, 6-butyl-2-[4-(1H-imidazol-4-yl)-1-piperidinyl]- (9CI) (CA INDEX NAME)



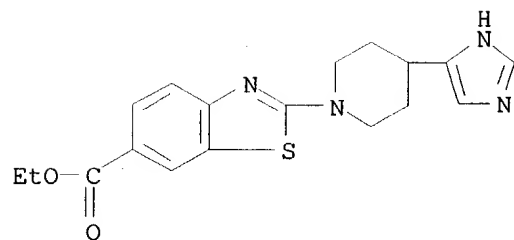
RN 156246-12-7 CAPLUS

CN Methanone, [2-[4-(1H-imidazol-4-yl)-1-piperidinyl]-6-benzothiazolyl]phenyl- (9CI) (CA INDEX NAME)



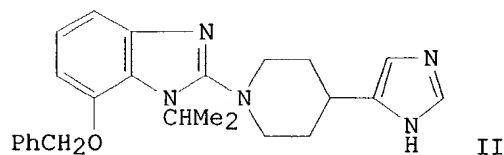
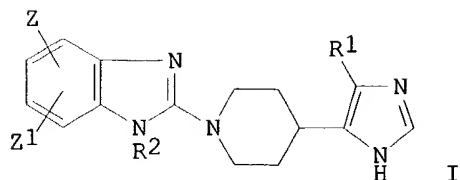
RN 156246-13-8 CAPLUS

CN 6-Benzothiazolecarboxylic acid, 2-[4-(1H-imidazol-4-yl)-1-piperidinyl]-, ethyl ester (9CI) (CA INDEX NAME)



L10 ANSWER 20 OF 38 CAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 1994:435609 CAPLUS
DOCUMENT NUMBER: 121:35609
TITLE: Preparation of 2-[4-(4-imidazolyl)piperidino]benzimidazoles as serotonergic receptor antagonists
INVENTOR(S): Jegham, Samir; Defosse, Gerard; Purcell, Thomas
PATENT ASSIGNEE(S): Synthelabo S. A., Fr.
SOURCE: Eur. Pat. Appl., 13 pp.
CODEN: EPXXDW
DOCUMENT TYPE: Patent
LANGUAGE: French
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 591026	A1	19940406	EP 1993-402280	19930920
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LI, LU, MC, NL, PT, SE				
FR 2696176	A1	19940401	FR 1992-11550	19920928
FR 2696176	B1	19941110		
CA 2107060	AA	19940329	CA 1993-2107060	19930927
FI 9304220	A	19940329	FI 1993-4220	19930927
NO 9303434	A	19940329	NO 1993-3434	19930927
AU 9348605	A1	19940414	AU 1993-48605	19930927
AU 659033	B2	19950504		
ZA 9307155	A	19940523	ZA 1993-7155	19930927
CN 1087340	A	19940601	CN 1993-118081	19930927
HU 65396	A2	19940628	HU 1993-2726	19930927
JP 06192254	A2	19940712	JP 1993-239568	19930927
US 5418241	A	19950523	US 1993-127058	19930927
PL 172852	B1	19971231	PL 1993-300514	19930927
PRIORITY APPLN. INFO.:			FR 1992-11550	19920928
OTHER SOURCE(S):	MARPAT 121:35609			
ED	Entered STN: 23 Jul 1994			
GI				



AB Title compds. (I; R1,R2 = H, alkyl; Z,Z1 = H, Cl, OH, NH2, alkyl, alkoxy, etc.) were prepd. Thus, 2-chloro-1-(1-methylethyl)-7-phenylmethoxy-1H-benzimidazole (prepn. given) was condensed with 4-(1H-imidazol-4-yl)piperidine to give title compd. II. I gave .gtoreq.50% inhibition of serotonin-induced bradycardia at 10.mu.g/kg i.v. in rats.

IT 155596-41-1P 155596-42-2P 155596-43-3P
 155596-45-5P 155596-47-7P 155596-49-9P
 155596-50-2P 155596-51-3P 155596-53-5P
 155596-54-6P 155596-55-7P 155596-57-9P
 155596-59-1P 155596-60-4P 155596-61-5P
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 155596-67-1P 155596-68-2P

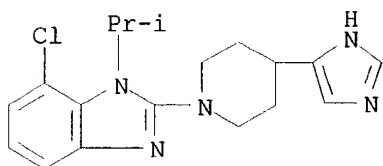
RL: SPN (Synthetic preparation); PREP (Preparation)
 (prepn. of, as serotonergic receptor antagonist)

RN 155596-41-1 CAPLUS

CN 1H-Benzimidazole, 7-chloro-2-[4-(1H-imidazol-4-yl)-1-piperidinyl]-1-(1-methylethyl)-, (2E)-2-butenedioate (1:1) (9CI) (CA INDEX NAME)

CM 1

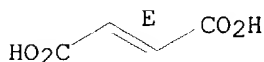
CRN 155596-40-0
 CMF C18 H22 Cl N5



CM 2

CRN 110-17-8
 CMF C4 H4 O4

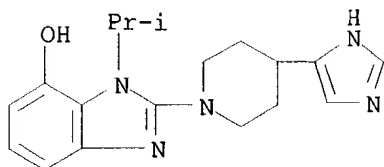
Double bond geometry as shown.



RN 155596-42-2 CAPLUS

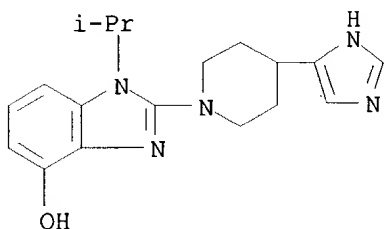
CN 1H-Benzimidazol-7-ol, 2-[4-(1H-imidazol-4-yl)-1-piperidinyl]-1-(1-

methylethyl)- (9CI) (CA INDEX NAME)



RN 155596-43-3 CAPLUS

CN 1H-Benzimidazol-4-ol, 2-[4-(1H-imidazol-4-yl)-1-piperidinyl]-1-(1-methylethyl)- (9CI) (CA INDEX NAME)



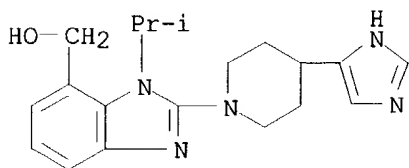
RN 155596-45-5 CAPLUS

CN 1H-Benzimidazole-7-methanol, 2-[4-(1H-imidazol-4-yl)-1-piperidinyl]-1-(1-methylethyl)-, (2E)-2-butenedioate (1:1) (salt) (9CI) (CA INDEX NAME)

CM 1

CRN 155596-44-4

CMF C19 H25 N5 O

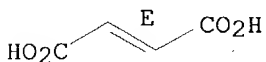


CM 2

CRN 110-17-8

CMF C4 H4 O4

Double bond geometry as shown.



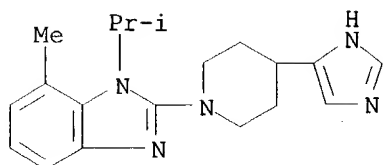
RN 155596-47-7 CAPLUS

CN 1H-Benzimidazole, 2-[4-(1H-imidazol-4-yl)-1-piperidinyl]-7-methyl-1-(1-methylethyl)-, (2E)-2-butenedioate (1:1) (9CI) (CA INDEX NAME)

CM 1

CRN 155596-46-6

CMF C19 H25 N5

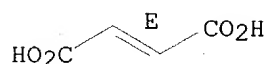


CM 2

CRN 110-17-8

CMF C4 H4 O4

Double bond geometry as shown.



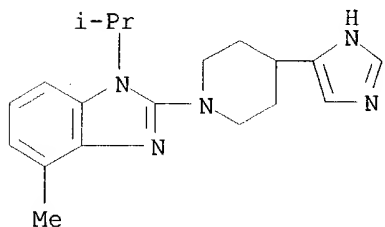
RN 155596-49-9 CAPLUS

CN 1H-Benzimidazole, 2-[4-(1H-imidazol-4-yl)-1-piperidinyl]-4-methyl-1-(1-methylethyl)-, (2E)-2-butenedioate (1:1) (9CI) (CA INDEX NAME)

CM 1

CRN 155596-48-8

CMF C19 H25 N5

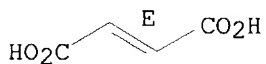


CM 2

CRN 110-17-8

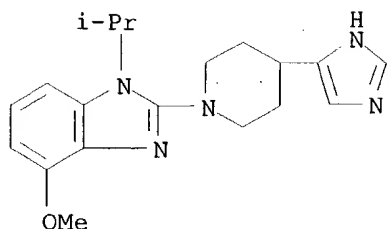
CMF C4 H4 O4

Double bond geometry as shown.



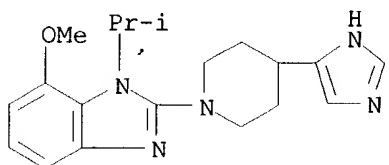
RN 155596-50-2 CAPLUS

CN 1H-Benzimidazole, 2-[4-(1H-imidazol-4-yl)-1-piperidinyl]-4-methoxy-1-(1-methylethyl)- (9CI) (CA INDEX NAME)



RN 155596-51-3 CAPLUS

CN 1H-Benzimidazole, 2-[4-(1H-imidazol-4-yl)-1-piperidinyl]-7-methoxy-1-(1-methylethyl)- (9CI) (CA INDEX NAME)



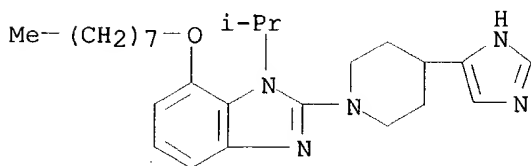
RN 155596-53-5 CAPLUS

CN 1H-Benzimidazole, 2-[4-(1H-imidazol-4-yl)-1-piperidinyl]-1-(1-methylethyl)-7-(octyloxy)-, (2Z)-2-butenedioate (1:2) (9CI) (CA INDEX NAME)

CM 1

CRN 155596-52-4

CMF C26 H39 N5 O

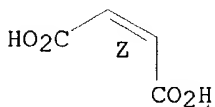


CM 2

CRN 110-16-7

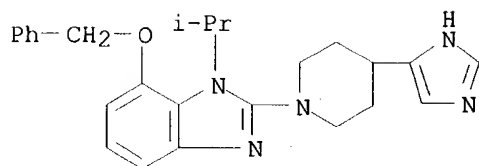
CMF C4 H4 O4

Double bond geometry as shown.



RN 155596-54-6 CAPLUS

CN 1H-Benzimidazole, 2-[4-(1H-imidazol-4-yl)-1-piperidinyl]-1-(1-methylethyl)-7-(phenylmethoxy)- (9CI) (CA INDEX NAME)



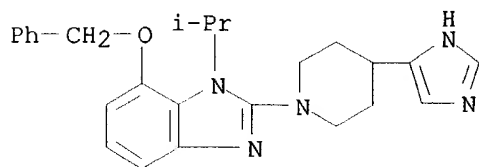
RN 155596-55-7 CAPLUS

CN 1H-Benzimidazole, 2-[4-(1H-imidazol-4-yl)-1-piperidiny]-1-(1-methylethyl)-7-(phenylmethoxy)-, (2Z)-2-butenedioate (1:2) (9CI) (CA INDEX NAME)

CM 1

CRN 155596-54-6

CMF C25 H29 N5 O

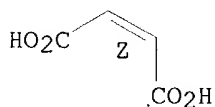


CM 2

CRN 110-16-7

CMF C4 H4 O4

Double bond geometry as shown.



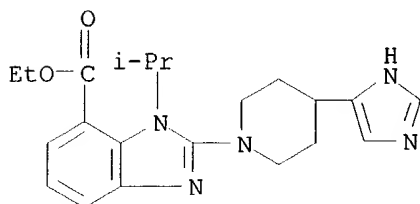
RN 155596-57-9 CAPLUS

CN 1H-Benzimidazole-7-carboxylic acid, 2-[4-(1H-imidazol-4-yl)-1-piperidiny]-1-(1-methylethyl)-, ethyl ester, (2E)-2-butenedioate (1:1) (9CI) (CA INDEX NAME)

CM 1

CRN 155596-56-8

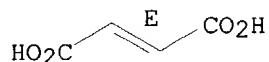
CMF C21 H27 N5 O2



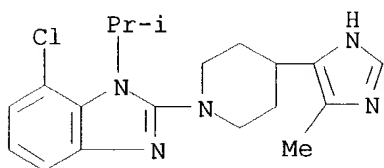
CM 2

CRN 110-17-8
CMF C4 H4 O4

Double bond geometry as shown.

RN 155596-59-1 CAPLUS
CN 1H-Benzimidazole, 7-chloro-1-(1-methylethyl)-2-[4-(5-methyl-1H-imidazol-4-yl)-1-piperidinyl]-, (2E)-2-butenedioate (1:1) (9CI) (CA INDEX NAME)

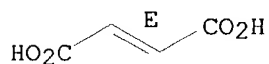
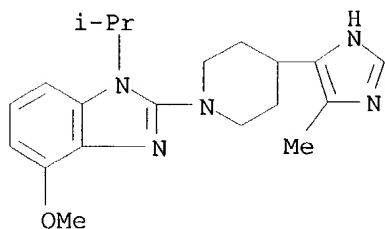
CM 1

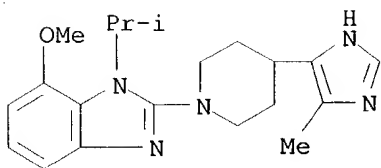
CRN 155596-58-0
CMF C19 H24 Cl N5

CM 2

CRN 110-17-8
CMF C4 H4 O4

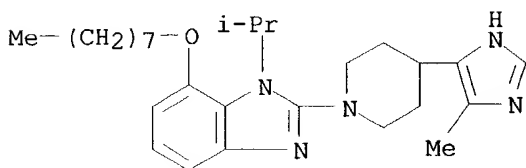
Double bond geometry as shown.

RN 155596-60-4 CAPLUS
CN 1H-Benzimidazole, 4-methoxy-1-(1-methylethyl)-2-[4-(5-methyl-1H-imidazol-4-yl)-1-piperidinyl]- (9CI) (CA INDEX NAME)RN 155596-61-5 CAPLUS
CN 1H-Benzimidazole, 7-methoxy-1-(1-methylethyl)-2-[4-(5-methyl-1H-imidazol-4-yl)-1-piperidinyl]- (9CI) (CA INDEX NAME)



RN 155596-62-6 CAPLUS

CN 1H-Benzimidazole, 1-(1-methylethyl)-2-[4-(5-methyl-1H-imidazol-4-yl)-1-piperidinyl]-7-(octyloxy)- (9CI) (CA INDEX NAME)



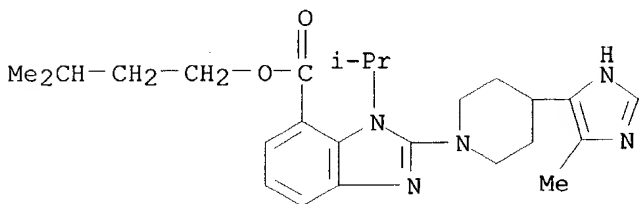
RN 155596-64-8 CAPLUS

CN 1H-Benzimidazole-7-carboxylic acid, 1-(1-methylethyl)-2-[4-(5-methyl-1H-imidazol-4-yl)-1-piperidinyl]-, 3-methylbutyl ester, (2E)-2-butenedioate (1:1) (9CI) (CA INDEX NAME)

CM 1

CRN 155596-63-7

CMF C25 H35 N5 O2

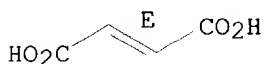


CM 2

CRN 110-17-8

CMF C4 H4 O4

Double bond geometry as shown.



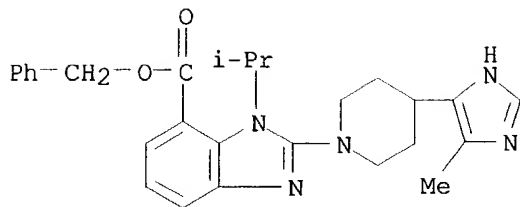
RN 155596-66-0 CAPLUS

CN 1H-Benzimidazole-7-carboxylic acid, 1-(1-methylethyl)-2-[4-(5-methyl-1H-imidazol-4-yl)-1-piperidinyl]-, phenylmethyl ester, (2E)-2-butenedioate (2:3) (9CI) (CA INDEX NAME)

CM 1

CRN 155596-65-9

CMF C27 H31 N5 O2

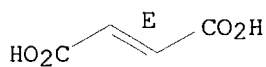


CM 2

CRN 110-17-8

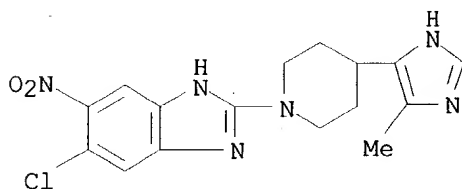
CMF C4 H4 O4

Double bond geometry as shown.



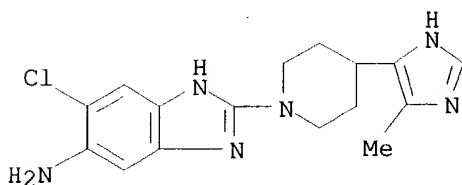
RN 155596-67-1 CAPLUS

CN 1H-Benzimidazole, 5-chloro-2-[4-(5-methyl-1H-imidazol-4-yl)-1-piperidinyl]-6-nitro- (9CI) (CA INDEX NAME)



RN 155596-68-2 CAPLUS

CN 1H-Benzimidazol-5-amine, 6-chloro-2-[4-(5-methyl-1H-imidazol-4-yl)-1-piperidinyl]-, dihydrochloride (9CI) (CA INDEX NAME)



● 2 HCl

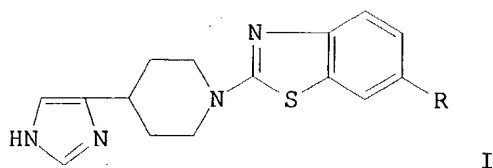
L10 ANSWER 21 OF 38 CAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 1994:483181 CAPLUS

DOCUMENT NUMBER: 121:83181

TITLE: QSAR study on H3-receptor affinity of benzothiazole derivatives of thioperamide

AUTHOR(S): Bordi, Fabrizio; Mor, Marco; Morini, Giovanni; Plazzi, Pier Vincenzo; Silva, Claudia; Vitali, Tullio; Caretta, Antonio
CORPORATE SOURCE: Fac. Farm., Univ. Parma, Parma, 43100, Italy
SOURCE: Farmaco (1994), 49(3), 153-66
CODEN: FRMCE8; ISSN: 0014-827X
DOCUMENT TYPE: Journal
LANGUAGE: English
ED Entered STN: 20 Aug 1994
GI



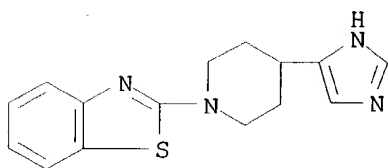
AB Starting from the structure of thioperamide, a known H3-antagonist, a new series of compds. I (R = H, NO₂, Br, etc.) with a benzothiazole nucleus instead of the cyclohexylcarbothioamide moiety was synthesized. Various substituents, selected by exptl. design, were introduced in position 6 of the benzothiazole nucleus, in order to change its physico-chem. characteristics. The lipophilicity of the synthesized compds. was measured by means of RP-HPLC, and their H3-receptor affinity was evaluated by competitive binding assays on rat cortex synaptosomes, with the labeled ligand N.alpha.-[3H]methylhistamine. A QSAR anal. was performed on the exptl. data, using also substituent consts. taken from the literature. The newly synthesized compds. showed lower H3-affinities than thioperamide; quant. structure-activity relationships, described by models obtained with PLS and MRS techniques, were obsd. among benzothiazole derivs. According to these relationships, any attempt to improve the potency of these compds. should involve the substitution of the benzothiazole moiety with less bulky and/or more flexible structures, which should also be less lipophilic and allow better electronic interactions with the binding site. 1-(Benzothiazol-2-yl)-4-[(1H)-imidazol-4-yl]piperidine represents a limit structure for H3-activity, since it seems impossible to improve its affinity by means of substitution in the studied position of the benzothiazole nucleus, as shown by predictions performed by a PLS model.

IT 146365-89-1P 156246-07-0P 156246-08-1P
156246-09-2P 156246-10-5P 156246-11-6P
156246-12-7P 156246-13-8P

RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. and H3-receptor affinity of)

RN 146365-89-1 CAPLUS

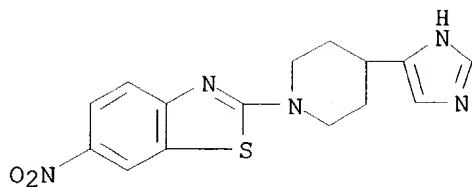
CN Benzothiazole, 2-[4-(1H-imidazol-4-yl)-1-piperidinyl]- (9CI) (CA INDEX NAME)



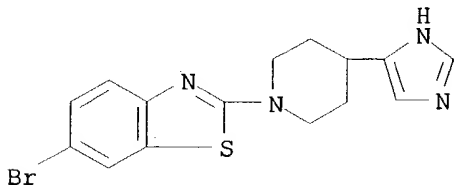
RN 156246-07-0 CAPLUS

CN Benzothiazole, 2-[4-(1H-imidazol-4-yl)-1-piperidinyl]-6-nitro- (9CI) (CA

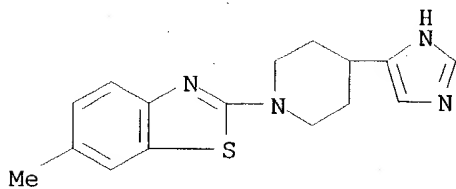
INDEX NAME)



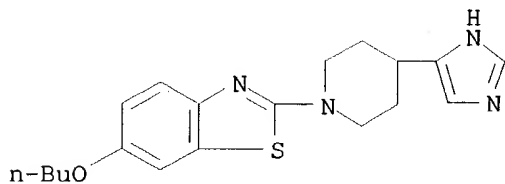
RN 156246-08-1 CAPLUS

CN Benzothiazole, 6-bromo-2-[4-(1H-imidazol-4-yl)-1-piperidinyl]- (9CI) (CA
INDEX NAME)

RN 156246-09-2 CAPLUS

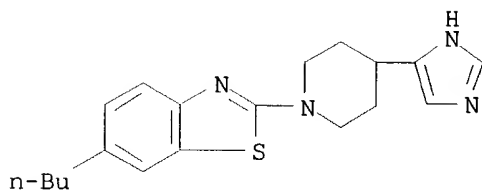
CN Benzothiazole, 2-[4-(1H-imidazol-4-yl)-1-piperidinyl]-6-methyl- (9CI) (CA
INDEX NAME)

RN 156246-10-5 CAPLUS

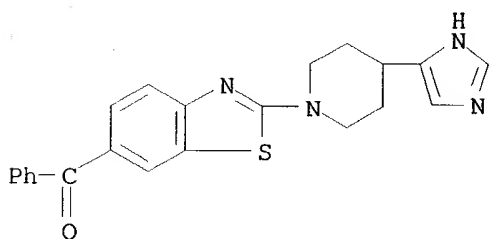
CN Benzothiazole, 6-butoxy-2-[4-(1H-imidazol-4-yl)-1-piperidinyl]- (9CI) (CA
INDEX NAME)

RN 156246-11-6 CAPLUS

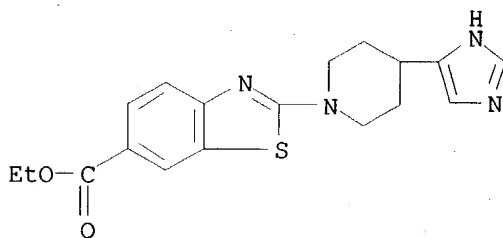
CN Benzothiazole, 6-butyl-2-[4-(1H-imidazol-4-yl)-1-piperidinyl]- (9CI) (CA
INDEX NAME)



RN 156246-12-7 CAPLUS

CN Methanone, [2-[4-(1H-imidazol-4-yl)-1-piperidinyl]-6-benzothiazolyl]phenyl-
(9CI) (CA INDEX NAME)

RN 156246-13-8 CAPLUS

CN 6-Benzothiazolecarboxylic acid, 2-[4-(1H-imidazol-4-yl)-1-piperidinyl]-,
ethyl ester (9CI) (CA INDEX NAME)

L10 ANSWER 22 OF 38 CAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 1992:490317 CAPLUS

DOCUMENT NUMBER: 117:90317

TITLE: Preparation of 2,4-diaminoquinazolines for enhancing
antitumor activityINVENTOR(S): Coe, Jotham Wadsworth; Fliri, Anton Franz; Kaneko,
Takushi; Larson, Eric Robert

PATENT ASSIGNEE(S): Pfizer Inc., USA

SOURCE: PCT Int. Appl., 83 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

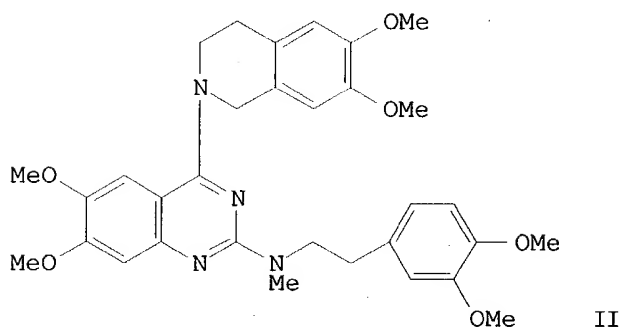
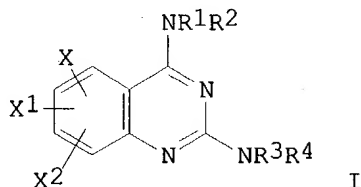
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9207844	A1	19920514	WO 1991-US7254	19911010
W: AU, BR, CA, CS, DE, FI, HU, JP, KR, NO, PL, SU, US				
RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LU, NL, SE				

CA 2095213	AA	19920507	CA 1991-2095213	19911010
AU 9190592	A1	19920526	AU 1991-90592	19911010
AU 644035	B2	19931202		
EP 556310	A1	19930825	EP 1992-900750	19911010
EP 556310	B1	19950705		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE				
JP 05507290	T2	19931021	JP 1992-501815	19911010
HU 64533	A2	19940128	HU 1993-1314	19911010
BR 9107070	A	19940531	BR 1991-7070	19911010
ES 2074867	T3	19950916	ES 1992-900750	19911010
CN 1061411	A	19920527	CN 1991-108479	19911105
ZA 9108767	A	19930505	ZA 1991-8767	19911105
NO 9301635	A	19930505	NO 1993-1635	19930505
US 5444062	A	19950822	US 1993-50047	19930505
PRIORITY APPLN. INFO.:			US 1990-609986	19901106
			WO 1991-US7254	19911010

OTHER SOURCE(S): MARPAT 117:90317

ED Entered STN: 05 Sep 1992

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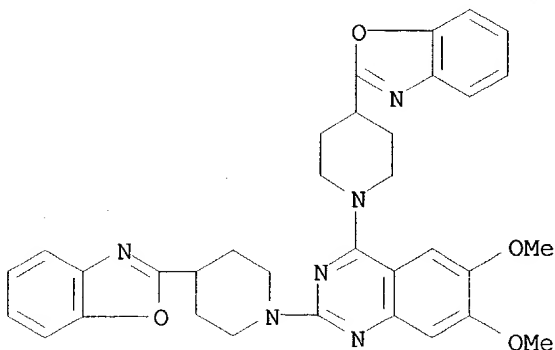


AB Title compds. [I; X, X1 = H, alkyl, alkoxy, Br, iodo, NO₂, amino, Me₂S⁺, aminomethyl, MeS, HOCH₂, (substituted) benzoylamino, alkanoylamino, 4-methylpiperazino, morpholino, piperazino, pyrrolidino, etc.; X₂ = H, alkyl, alkoxy; XX1 = ethylenedioxy, methylenedioxy; R1 = alkoxyalkyl, cycloalkyl, benzodioxan-2-ylmethyl; R2 = H, alkyl, PhCH₂; R1R2 = (substituted) benzodiazepinyl, piperidino, decahydroisoquinol-2-yl, octahydroisoindol-2-yl, 1,2,3,4-tetrahydro-.beta.-carbol-2-yl; R3 = cycloalkyl, benzodioxan-2-ylmethyl, (substituted) aralkyl, pyridylalkyl, alkoxyalkyl, indolylalkyl, tetrahydronaphthyl, indenyl, naphthyl, etc.; R4 = H, alkyl; R3R4N = (substituted) tetrahydroisoquinolyl, piperidino, piperazino], were prep'd. as p-glycoprotein inhibitors to reverse multidrug resistance (no data). Thus, 2,4-dichloro-6,7-dimethoxyquinazoline, 1,2,3,4-tetrahydro-6,7-dimethoxyisoquinoline, and Et₃N were stirred 16 h in dimethylacetamide to give 2-chloro-4-(1,2,3,4-tetrahydro-6,7-dimethoxyisoquinol-2-yl)-6,7-dimethoxyquinazoline. The latter was heated with N-methyl-3,4-dimethoxyphenethylamine in ethoxyethoxyethanol to give title compd. II.

IT 142716-75-4P

RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. of, as P-glycoprotein inhibitor)

RN 142716-75-4 CAPLUS

CN Quinazoline, 2,4-bis[4-(2-benzoxazolyl)-1-piperidiny]-6,7-dimethoxy-
(9CI) (CA INDEX NAME)

L10 ANSWER 23 OF 38 CAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 1993:124534 CAPLUS

DOCUMENT NUMBER: 118:124534

TITLE: Preparation of 2-(imidazolylpiperidino)benzimidazoles
and analogs as 5-HT receptor ligandsINVENTOR(S): Jegham, Samir; Defosse, Gerard; Purcell, Thomas;
Schoemaker, Johannes

PATENT ASSIGNEE(S): Synthelabo S. A., Fr.

SOURCE: Eur. Pat. Appl., 17 pp.

CODEN: EPXXDW

DOCUMENT TYPE: Patent

LANGUAGE: French

FAMILY ACC. NUM. COUNT: 1

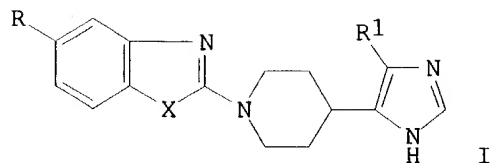
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 507650	A1	19921007	EP 1992-400780	19920323
EP 507650	B1	19960522		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, MC, NL, PT, SE				
FR 2674855	A1	19921009	FR 1991-4009	19910403
FR 2674855	B1	19940114		
AT 138375	E	19960615	AT 1992-400780	19920323
CA 2064924	AA	19921004	CA 1992-2064924	19920402
NO 9201281	A	19921005	NO 1992-1281	19920402
AU 9213989	A1	19921008	AU 1992-13989	19920402
AU 646332	B2	19940217		
CN 1065459	A	19921021	CN 1992-102327	19920402
JP 05112563	A2	19930507	JP 1992-80690	19920402
JP 07088378	B4	19950927		
HU 62573	A2	19930528	HU 1992-1116	19920402
US 5280030	A	19940118	US 1992-862376	19920402
PRIORITY APPLN. INFO.:			FR 1991-4009	19910403

OTHER SOURCE(S): MARPAT 118:124534

ED Entered STN: 30 Mar 1993

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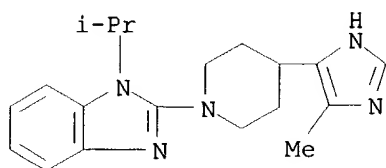
AB Title compds. [I; R = H, F; R1 = H, (cyclo)alkyl; X = O, S, NR3; R3 = H, (cyclo)alkyl, Ph, pyridyl, etc.] were prepd. Thus, 1-(4-pyridyl)-1-propanone was converted in 2 steps to 2-amino-1-(4-pyridyl)-1-propanone which was cyclocondensed with KSCN and the product converted in 2 steps to 4-(5-methyl-1H-imidazol-4-yl)piperidine. The latter was condensed with 2-chloro-1-(1-methylethyl)-1H-benzimidazole (prepn. given) to give I (R = H, R1 = Me, X = NCHMe2). I gave .gtoreq. 50% inhibition of serotonin-induced bradycardia in rats at 10 .mu.g/kg i.v.

IT 146365-53-9P 146365-54-0P 146365-56-2P
 146365-58-4P 146365-60-8P 146365-61-9P
 146365-62-0P 146365-64-2P 146365-65-3P
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RL: SPN (Synthetic preparation); PREP (Preparation)
 (prepn. of, as 5-HT receptor ligand)

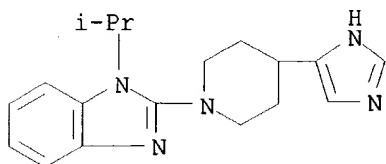
RN 146365-53-9 CAPLUS

CN 1H-Benzimidazole, 1-(1-methylethyl)-2-[4-(5-methyl-1H-imidazol-4-yl)-1-piperidinyl]- (9CI) (CA INDEX NAME)



RN 146365-54-0 CAPLUS

CN 1H-Benzimidazole, 2-[4-(1H-imidazol-4-yl)-1-piperidinyl]-1-(1-methylethyl)- (9CI) (CA INDEX NAME)

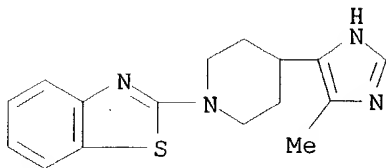


RN 146365-56-2 CAPLUS

CN Benzothiazole, 2-[4-(5-methyl-1H-imidazol-4-yl)-1-piperidinyl]-, (2Z)-2-butenedioate (1:1) (9CI) (CA INDEX NAME)

CM 1

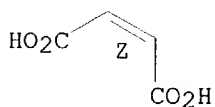
CRN 146365-55-1
CMF C16 H18 N4 S



CM 2

CRN 110-16-7
CMF C4 H4 O4

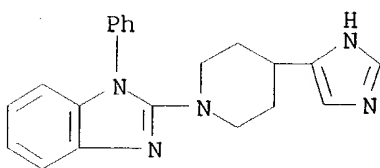
Double bond geometry as shown.



RN 146365-58-4 CAPLUS
CN 1H-Benzimidazole, 2-[4-(1H-imidazol-4-yl)-1-piperidinyl]-1-phenyl-,
(2E)-2-butenedioate (2:3) (9CI) (CA INDEX NAME)

CM 1

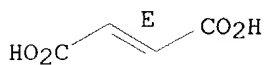
CRN 146365-57-3
CMF C21 H21 N5



CM 2

CRN 110-17-8
CMF C4 H4 O4

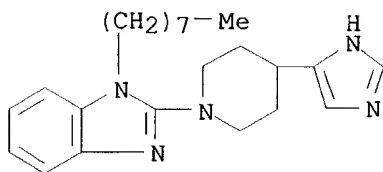
Double bond geometry as shown.



RN 146365-60-8 CAPLUS
CN 1H-Benzimidazole, 2-[4-(1H-imidazol-4-yl)-1-piperidinyl]-1-octyl-,
(2E)-2-butenedioate (1:1) (9CI) (CA INDEX NAME)

CM 1

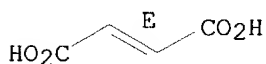
CRN 146365-59-5
CMF C23 H33 N5



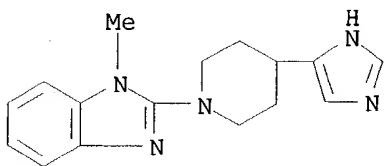
CM 2

CRN 110-17-8
CMF C4 H4 O4

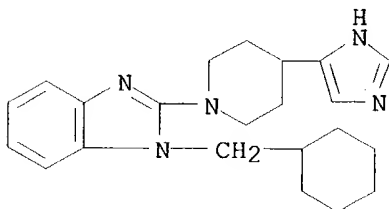
Double bond geometry as shown.



RN 146365-61-9 CAPLUS
CN 1H-Benzimidazole, 2-[4-(1H-imidazol-4-yl)-1-piperidinyl]-1-methyl- (9CI)
(CA INDEX NAME)



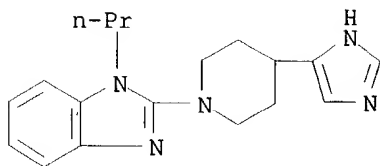
RN 146365-62-0 CAPLUS
CN 1H-Benzimidazole, 1-(cyclohexylmethyl)-2-[4-(1H-imidazol-4-yl)-1-piperidinyl]- (9CI) (CA INDEX NAME)



RN 146365-64-2 CAPLUS
CN 1H-Benzimidazole, 2-[4-(1H-imidazol-4-yl)-1-piperidinyl]-1-propyl-,
(2E)-2-butenedioate (1:1) (9CI) (CA INDEX NAME)

CM 1

CRN 146365-63-1
CMF C18 H23 N5

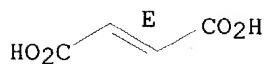


CM 2

CRN 110-17-8

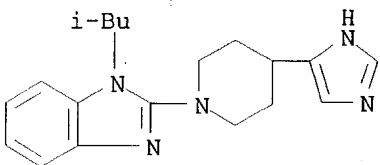
CMF C4 H4 O4

Double bond geometry as shown.



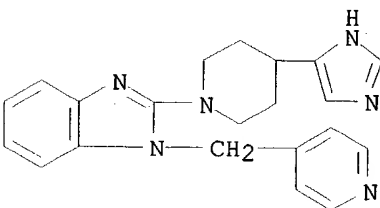
RN 146365-65-3 CAPLUS

CN 1H-Benzimidazole, 2-[4-(1H-imidazol-4-yl)-1-piperidinyl]-1-(2-methylpropyl)- (9CI) (CA INDEX NAME)



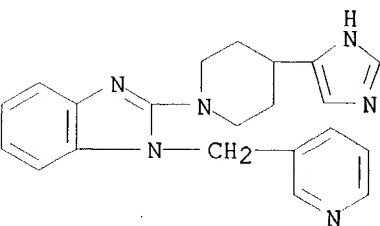
RN 146365-66-4 CAPLUS

CN 1H-Benzimidazole, 2-[4-(1H-imidazol-4-yl)-1-piperidinyl]-1-(4-pyridinylmethyl)- (9CI) (CA INDEX NAME)



RN 146365-67-5 CAPLUS

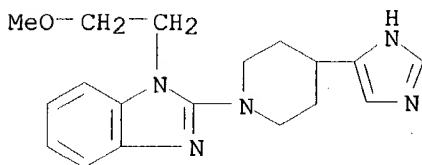
CN 1H-Benzimidazole, 2-[4-(1H-imidazol-4-yl)-1-piperidinyl]-1-(3-pyridinylmethyl)- (9CI) (CA INDEX NAME)



RN 146365-69-7 CAPLUS
CN 1H-Benzimidazole, 2-[4-(1H-imidazol-4-yl)-1-piperidinyl]-1-(2-methoxyethyl)-, ethanedioate (1:1) (9CI) (CA INDEX NAME)

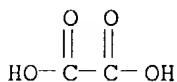
CM 1

CRN 146365-68-6
CMF C18 H23 N5 O



CM 2

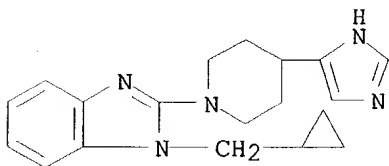
CRN 144-62-7
CMF C2 H2 O4



RN 146365-71-1 CAPLUS
CN 1H-Benzimidazole, 1-(cyclopropylmethyl)-2-[4-(1H-imidazol-4-yl)-1-piperidinyl]-, (2E)-2-butenedioate (1:1) (9CI) (CA INDEX NAME)

CM 1

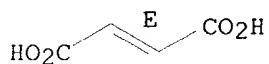
CRN 146365-70-0
CMF C19 H23 N5



CM 2

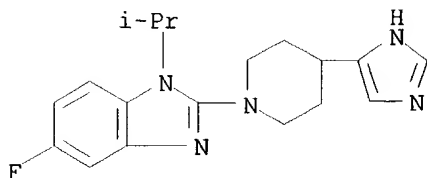
CRN 110-17-8
CMF C4 H4 O4

Double bond geometry as shown.



RN 146365-72-2 CAPLUS
CN 1H-Benzimidazole, 5-fluoro-2-[4-(1H-imidazol-4-yl)-1-piperidinyl]-1-(1-

methylethyl)- (9CI) (CA INDEX NAME)



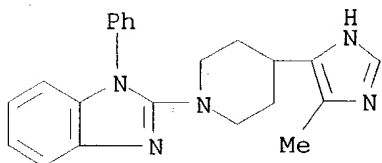
RN 146365-74-4 CAPLUS

CN 1H-Benzimidazole, 2-[4-(5-methyl-1H-imidazol-4-yl)-1-piperidinyl]-1-phenyl-, (2E)-2-butenedioate (2:3) (9CI) (CA INDEX NAME)

CM 1

CRN 146365-73-3

CMF C22 H23 N5



CM 2

CRN 110-17-8

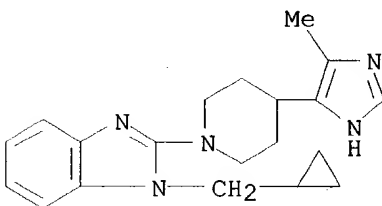
CMF C4 H4 O4

Double bond geometry as shown.



RN 146365-75-5 CAPLUS

CN 1H-Benzimidazole, 1-(cyclopropylmethyl)-2-[4-(5-methyl-1H-imidazol-4-yl)-1-piperidinyl]- (9CI) (CA INDEX NAME)

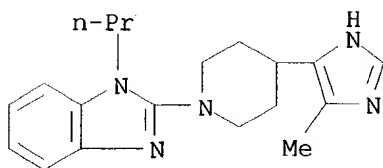


RN 146365-77-7 CAPLUS

CN 1H-Benzimidazole, 2-[4-(5-methyl-1H-imidazol-4-yl)-1-piperidinyl]-1-propyl-, (2Z)-2-butenedioate (1:2) (9CI) (CA INDEX NAME)

CM 1

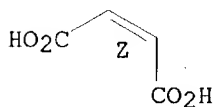
CRN 146365-76-6
CMF C19 H25 N5



CM 2

CRN 110-16-7
CMF C4 H4 O4

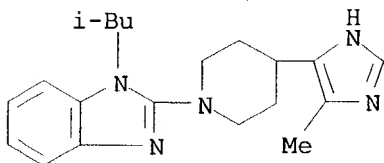
Double bond geometry as shown.



RN 146365-79-9 CAPLUS
CN 1H-Benzimidazole, 2-[4-(5-methyl-1H-imidazol-4-yl)-1-piperidinyl]-1-(2-methylpropyl)-, ethanedioate (1:1) (9CI) (CA INDEX NAME)

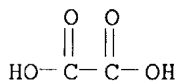
CM 1

CRN 146365-78-8
CMF C20 H27 N5

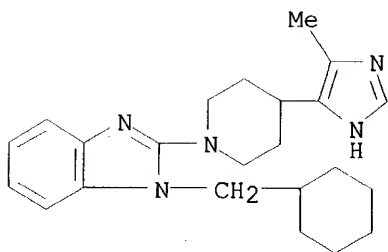


CM 2

CRN 144-62-7
CMF C2 H2 O4



RN 146365-80-2 CAPLUS
CN 1H-Benzimidazole, 1-(cyclohexylmethyl)-2-[4-(5-methyl-1H-imidazol-4-yl)-1-piperidinyl]- (9CI) (CA INDEX NAME)



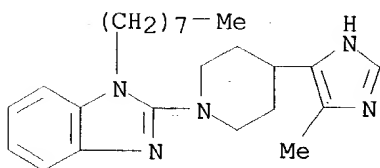
RN 146365-82-4 CAPLUS

CN 1H-Benzimidazole, 2-[4-(5-methyl-1H-imidazol-4-yl)-1-piperidinyl]-1-octyl-, (2E)-2-butenedioate (2:5) (9CI) (CA INDEX NAME)

CM 1

CRN 146365-81-3

CMF C24 H35 N5



CM 2

CRN 110-17-8

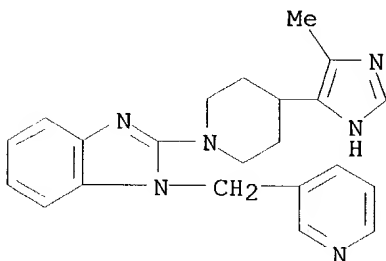
CMF C4 H4 O4

Double bond geometry as shown.



RN 146365-83-5 CAPLUS

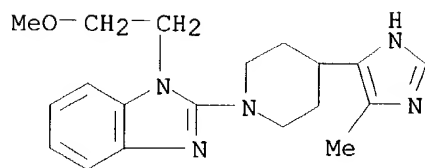
CN 1H-Benzimidazole, 2-[4-(5-methyl-1H-imidazol-4-yl)-1-piperidinyl]-1-(3-pyridinylmethyl)- (9CI) (CA INDEX NAME)



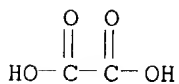
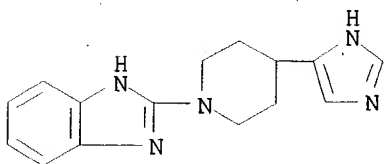
RN 146365-85-7 CAPLUS

CN 1H-Benzimidazole, 1-(2-methoxyethyl)-2-[4-(5-methyl-1H-imidazol-4-yl)-1-piperidinyl]-, ethanedioate (1:1) (9CI) (CA INDEX NAME)

CM 1

CRN 146365-84-6
CMF C19 H25 N5 O

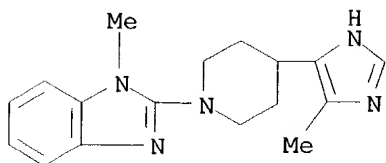
CM 2

CRN 144-62-7
CMF C2 H2 O4RN 146365-86-8 CAPLUS
CN 1H-Benzimidazole, 2-[4-(1H-imidazol-4-yl)-1-piperidiny]-, dihydrochloride
(9CI) (CA INDEX NAME)

● 2 HCl

RN 146365-88-0 CAPLUS
CN 1H-Benzimidazole, 1-methyl-2-[4-(5-methyl-1H-imidazol-4-yl)-1-piperidiny]-, ethanedioate (2:1) (9CI) (CA INDEX NAME)

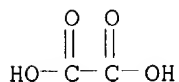
CM 1

CRN 146365-87-9
CMF C17 H21 N5

CM 2

CRN 144-62-7

CMF C2 H2 O4



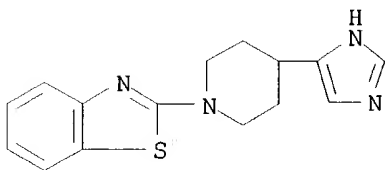
RN 146365-90-4 CAPLUS

CN Benzothiazole, 2-[4-(1H-imidazol-4-yl)-1-piperidiny]-, (2Z)-2-butenedioate (1:1) (9CI) (CA INDEX NAME)

CM 1

CRN 146365-89-1

CMF C15 H16 N4 S

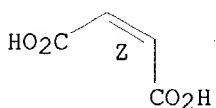


CM 2

CRN 110-16-7

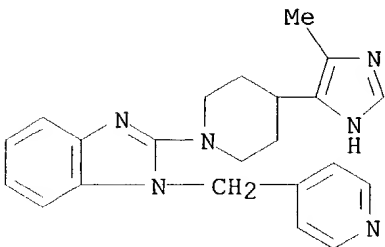
CMF C4 H4 O4

Double bond geometry as shown.



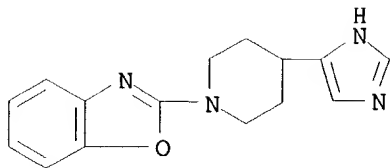
RN 146365-91-5 CAPLUS

CN 1H-Benzimidazole, 2-[4-(5-methyl-1H-imidazol-4-yl)-1-piperidiny]-1-(4-pyridinylmethyl)- (9CI) (CA INDEX NAME)

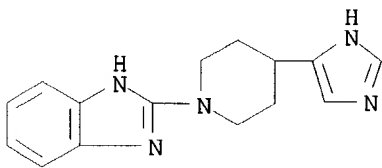


RN 146365-92-6 CAPLUS

CN Benzoxazole, 2-[4-(1H-imidazol-4-yl)-1-piperidiny]- (9CI) (CA INDEX NAME)



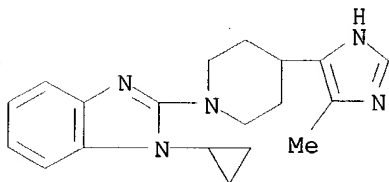
RN 146365-93-7 CAPLUS
CN 1H-Benzimidazole, 2-[4-(1H-imidazol-4-yl)-1-piperidinyl]- (9CI) (CA INDEX NAME)



RN 146365-95-9 CAPLUS
CN 1H-Benzimidazole, 1-cyclopropyl-2-[4-(5-methyl-1H-imidazol-4-yl)-1-piperidinyl]-, (2E)-2-butenedioate (1:1) (9CI) (CA INDEX NAME)

CM 1

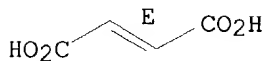
CRN 146365-94-8
CMF C19 H23 N5



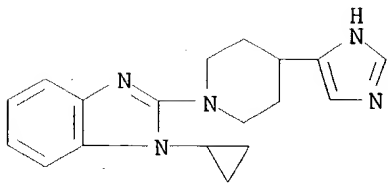
CM 2

CRN 110-17-8
CMF C4 H4 O4

Double bond geometry as shown.

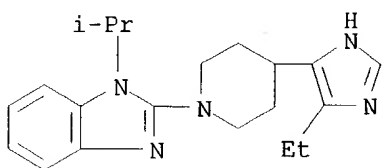


RN 146365-96-0 CAPLUS
CN 1H-Benzimidazole, 1-cyclopropyl-2-[4-(1H-imidazol-4-yl)-1-piperidinyl]- (9CI) (CA INDEX NAME)



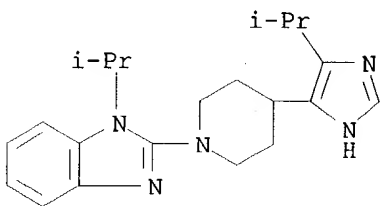
RN 146365-97-1 CAPLUS

CN 1H-Benzimidazole, 2-[4-(5-ethyl-1H-imidazol-4-yl)-1-piperidinyl]-1-(1-methylethyl)- (9CI) (CA INDEX NAME)



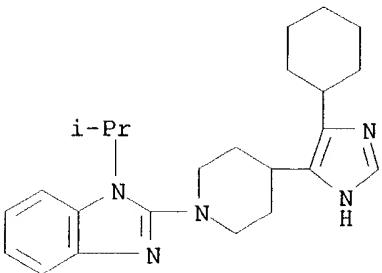
RN 146365-98-2 CAPLUS

CN 1H-Benzimidazole, 1-(1-methylethyl)-2-[4-[5-(1-methylethyl)-1H-imidazol-4-yl]-1-piperidinyl]- (9CI) (CA INDEX NAME)



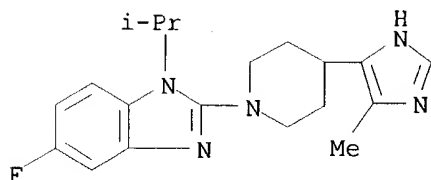
RN 146365-99-3 CAPLUS

CN 1H-Benzimidazole, 2-[4-(5-cyclohexyl-1H-imidazol-4-yl)-1-piperidinyl]-1-(1-methylethyl)- (9CI) (CA INDEX NAME)



RN 146395-69-9 CAPLUS

CN 1H-Benzimidazole, 5-fluoro-1-(1-methylethyl)-2-[4-(5-methyl-1H-imidazol-4-yl)-1-piperidinyl]- (9CI) (CA INDEX NAME)



L10 ANSWER 24 OF 38 CAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 1991:247227 CAPLUS

DOCUMENT NUMBER: 114:247227

TITLE: Studies on cardiotonic agents. V. Synthesis of 1-(6,7-dimethoxy-4-quinazolinyl)piperidine derivatives carrying various 5-membered heterocyclic rings at the 4-position

AUTHOR(S): Nomoto, Yuji; Takai, Haruki; Hirata, Tadashi;

CORPORATE SOURCE: Teranishi, Masayuki; Ohno, Tetsuji; Kubo, Kazuhiro
Pharm. Res. Lab., Fuji, Kyowa Hakko Kogyo Co., Ltd.,
Nagaizumicho, 411, Japan

SOURCE: Chemical & Pharmaceutical Bulletin (1991), 39(1),
86-90

CODEN: CPBTAL; ISSN: 0009-2363

DOCUMENT TYPE: Journal

LANGUAGE: English

OTHER SOURCE(S): CASREACT 114:247227

ED Entered STN: 28 Jun 1991

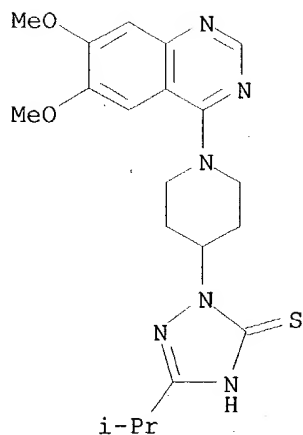
AB A series of 1-(6,7-dimethoxy-4-quinazolinyl)piperidines carrying various 5-membered heterocycles at the 4-position was synthesized and examd. for cardiotoxic activity in anesthetized dogs. The (4-oxo-2-thioxo-3-imidazolidinyl)amino derivs. showed the most potent inotropic activity. Marked loss of activity was obsd. in the 2,4-dihydro-3-thioxo-3H-1,2,4-triazolyl, the 2,4-dihydro-3-oxo-3H-pyrazolyl, and the (2,3-dihydro-2-thioxo-3H-1,3,4-thiadiazol-5-yl)amino derivs. The synthesis and structure-activity relationships are discussed.

IT 130492-43-2P 133785-70-3P

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation)
(prepn. and cardiotoxic activity of)

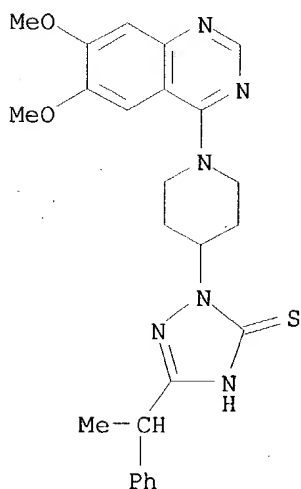
RN 130492-43-2 CAPLUS

CN 3H-1,2,4-Triazole-3-thione, 2-[1-(6,7-dimethoxy-4-quinazolinyl)-4-piperidinyl]-2,4-dihydro-5-(1-methylethyl)- (9CI) (CA INDEX NAME)



RN 133785-70-3 CAPLUS

CN 3H-1,2,4-Triazole-3-thione, 2-[1-(6,7-dimethoxy-4-quinazolinyl)-4-piperidinyl]-1,2-dihydro-5-(1-phenylethyl)- (9CI) (CA INDEX NAME)



L10 ANSWER 25 OF 38 CAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 1991:42809 CAPLUS

DOCUMENT NUMBER: 114:42809

TITLE: 4-Piperidinoquinazoline derivatives as cardiotonics

INVENTOR(S): Teranishi, Masayuki; Nomoto, Yuji; Takai, Haruki; Kubo, Kazuhiro; Ono, Tetsuji

PATENT ASSIGNEE(S): Kyowa Hakko Kogyo Co., Ltd., Japan

SOURCE: Jpn. Kokai Tokkyo Koho, 12 pp.

CODEN: JKXXAF

DOCUMENT TYPE: Patent

LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

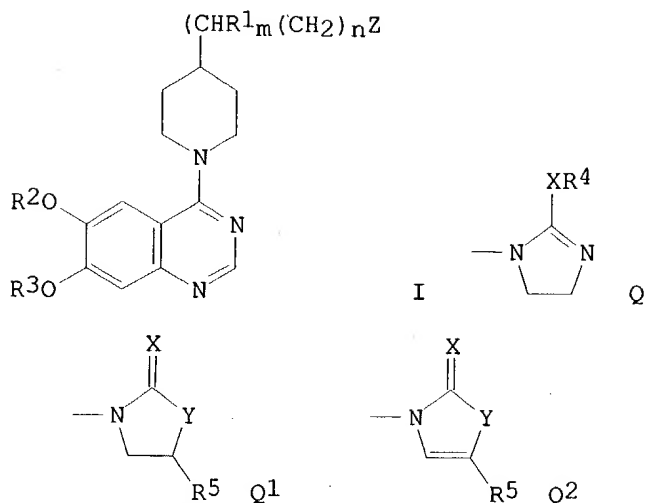
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 02193992	A2	19900731	JP 1989-13366	19890123
PRIORITY APPLN. INFO.:			JP 1989-13366	19890123

OTHER SOURCE(S): MARPAT 114:42809

ED Entered STN: 09 Feb 1991

GI



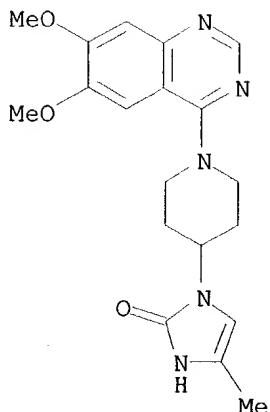
AB The title derivs. I [R¹ - R³ = H, lower alkyl; Z = Q, Q¹, Q²; R⁴ = H, (un)substituted lower alkyl, lower alkenyl, aralkyl, lower alkanoyl; R⁵ = H, lower alkyl; X = O, S, NR⁴; m = 0, 1; n = 0-4; provided that R⁴, R⁵ = any group other than H when X = O and m = n = 0] and their pharmacol. acceptable salts are prepd. A mixt. of 1-(6,7-dimethoxyquinazolin-4-yl)-4-piperidinone 3.0, H₂NCH₂CH₂NH₂ 6.5 g, and MeOH 30 mL was stirred at room temp. for 10 min, 4.9 g NaBH₄ was gradually added, then the reaction mixt. was stirred for 2 h to give 2.3 g 4-.beta.-aminoethyl-1-(6,7-dimethoxyquinazolin-4-yl)piperidine (II). A mixt. of II 1.0 g, Et₃N 0.7 g, CS₂ 1.0 g, and EtOH 5 mL was stirred under reflux for 15 h to give 1.0 g I (R² = R³ = Me, R⁵ = H, Z = Q¹, X = S, Y = NH, m = n = 0) (III). At 0.3 mg/kg i.v. in dogs, III increased myocardiac contractility by 42.7.+-.1.1% max. (percentage increase in dP/dt of light ventricular pressure), vs. 27.5.+-.11.7% for 1-(6,7-dimethoxyquinazolin-4-yl)-4-(N-butylcarbamoylamino)piperidine.

IT 130819-06-6P

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(prepn. of, as cardiotonic)

RN 130819-06-6 CAPLUS

CN 2H-Imidazol-2-one, 1-[1-(6,7-dimethoxy-4-quinazolinyl)-4-piperidinyl]-1,3-dihydro-4-methyl- (9CI) (CA INDEX NAME)



L10 ANSWER 26 OF 38 CAPLUS COPYRIGHT 2004 ACS on STN
 ACCESSION NUMBER: 1990:612010 CAPLUS
 DOCUMENT NUMBER: 113:212010
 TITLE: Preparation of benzodiazine compounds as cardiotonics
 INVENTOR(S): Nomoto, Yuji; Takai, Haruki; Ono, Tetsuji; Kubo, Kazuhiro
 PATENT ASSIGNEE(S): Kyowa Hakko Kogyo Co., Ltd., Japan
 SOURCE: Jpn. Kokai Tokkyo Koho, 13 pp.
 CODEN: JKXXAF
 DOCUMENT TYPE: Patent
 LANGUAGE: Japanese
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 02167277	A2	19900627	JP 1989-153222	19890615
PRIORITY APPLN. INFO.: MARPAT 113:212010			JP 1988-234517	19880919
OTHER SOURCE(S):				
ED Entered STN: 08 Dec 1990				
GI				

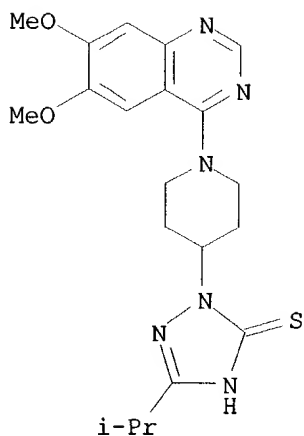
* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

AB Benzodiazine [I; R,R1 = alkyl; A:B = CH:N, N:CR2 wherein R2 = H, alkyl; X = CH, N; Z = Q, Q1, Q2, etc. wherein W = O, S; R3-R8 = (CH2)3-4; m = 0-2; n = 0, 1] and their pharmaceutically acceptable salts are prepd. Thiosemicarbazide II (prepn. given) was dissolved in HCO2H and the soln. heated 4 h at 100.degree. to give 74% III, which increased the heart beat by (3.7 .+- . 1.2)% and lowered the blood pressure by (15.1 .+- . 4.5)% at 0.15 mg/kg i.v. in dogs. Also prepd. and tested were 28 addnl. I.

IT 130492-43-2P 130492-44-3P
 RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
 (prepn. of, as cardiogenic)

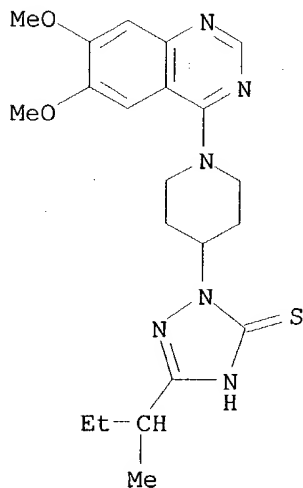
RN 130492-43-2 CAPLUS

CN 3H-1,2,4-Triazole-3-thione, 2-[1-(6,7-dimethoxy-4-quinazolinyl)-4-piperidinyl]-2,4-dihydro-5-(1-methylethyl)- (9CI) (CA INDEX NAME)



RN 130492-44-3 CAPLUS

CN 3H-1,2,4-Triazole-3-thione, 2-[1-(6,7-dimethoxy-4-quinazolinyl)-4-piperidinyl]-2,4-dihydro-5-(1-methylpropyl)- (9CI) (CA INDEX NAME)



L10 ANSWER 27 OF 38 USPATFULL on STN
ACCESSION NUMBER: 2004:39324 USPATFULL
TITLE: Benzimidazole derivatives, preparation and therapeutic use thereof
INVENTOR(S): Barth, Francis, Saint Georges D'Orques, FRANCE
Bichon, Daniel, Montpellier, FRANCE
Bolkenius, Frank, Kehl, GERMANY, FEDERAL REPUBLIC OF
Van Dorsselaer, Viviane, Strasbourg, FRANCE

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2004029866	A1	20040212
APPLICATION INFO.:	US 2003-432672	A1	20030523 (10)
	WO 2001-FR3667		20011121

	NUMBER	DATE
PRIORITY INFORMATION:	FR 2000-15141	20001123
	FR 2001-6157	20010510

DOCUMENT TYPE: Utility
FILE SEGMENT: APPLICATION
LEGAL REPRESENTATIVE: FINNEGAN, HENDERSON, FARABOW, GARRETT & DUNNER, LLP,
1300 I STREET, NW, WASHINGTON, DC, 20005
NUMBER OF CLAIMS: 9
EXEMPLARY CLAIM: 1
LINE COUNT: 1448

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The invention relates to benzimidazole derivatives of general formula
(I) ##STR1##

in which

X represents a nitrogen atom or a carbon atom;

and when X represents a nitrogen atom

R3 represents in particular a hydrogen atom or a (C1-C4)alkyl group,

R4 represents in particular a hydrogen atom; a (C1-C6)alkyl;
(C3-C7)cycloalkyl; 4-piperidyl; --(CH.sub.2).sub.p--NR5R6;
--(CH.sub.2).sub.p--CONR5R6; --CO--(CH.sub.2).sub.p--NR5R6;
--(CH.sub.2).sub.p-phenyl; --(CH.sub.2).sub.p-morpholinyl;
--(CH.sub.2).sub.p-pyrrolidinyl; --(CH.sub.2).sub.p-
tetrahydroisoquinoline; --(CH.sub.2).sub.p-heteroaryl;
heteroarylcarbonyl; phenylcarbonyl; (C1-C6)alkylcarbonyl;
--(CH.sub.2).sub.p--COOR'; or phenylsulphonyl group;

and when X represents a carbon atom

R3 represents a hydrogen atom; a group --NR5R6; --NHCOR7; --CONHR5;
--COR7; --NHCONH.sub.2; --OH or --CH.sub.2OH,

R4 represents in particular a hydrogen atom; an optionally substituted
group --(CH.sub.2).sub.p-phenyl; a group --(CH.sub.2).sub.p-heteroaryl;
or a group --(CH.sub.2).sub.tNR7R8.

Preparation process and therapeutic application.

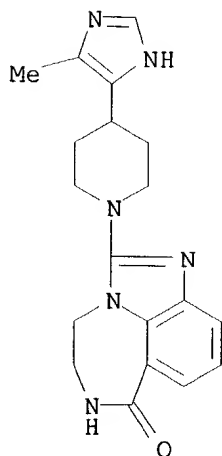
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

IT 429689-45-2P, 2-[4-(5-Methyl-1H-imidazol-4-yl)piperidin-1-yl]-5,6-
dihydroimidazo[4,5,1-jk][1,4]benzodiazepin-7(4H)-one

(drug candidate; prepn. of benzimidazole derivs. as PARP inhibitors)

RN 429689-45-2 USPATFULL

CN Imidazo[4,5,1-jk][1,4]benzodiazepin-7(4H)-one, 5,6-dihydro-2-[4-(5-methyl-
1H-imidazol-4-yl)-1-piperidinyl]- (9CI) (CA INDEX NAME)



L10 ANSWER 28 OF 38 USPATFULL on STN
 ACCESSION NUMBER: 2003:289134 USPATFULL
 TITLE: Benzimidazole derivatives, preparation and therapeutic use thereof
 INVENTOR(S): Barth, Francis, Saint-Georges D'Oques, FRANCE
 Bichon, Daniel, Montpellier, FRANCE
 Bolkenius, Frank, Kehl, GERMANY, FEDERAL REPUBLIC OF
 Van Dorsselaer, Viviane, Strasbourg, FRANCE

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2003203893	A1	20031030
APPLICATION INFO.:	US 2003-343467	A1	20030130 (10)
	WO 2001-FR2556		20010806

	NUMBER	DATE
PRIORITY INFORMATION:	FR 2000-10419	20000808
	FR 2000-14696	20001115
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	APPLICATION	
LEGAL REPRESENTATIVE:	SANOFI-SYNTHELABO INC., 9 GREAT VALLEY PARKWAY, P.O. BOX 3026, MALVERN, PA, 19355	
NUMBER OF CLAIMS:	10	
EXEMPLARY CLAIM:	1	
LINE COUNT:	1837	

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The invention relates to benzimidazole derivatives of general formula
 ##STR1##

in which

X represents a nitrogen atom or a carbon atom;

and when X represents a nitrogen atom:

R3 represents a hydrogen atom or a C1-C4 alkyl group, or does not exist, to give the compounds of formula (I) comprising a secondary or tertiary amine;

R4 represents a hydrogen atom or a C1-C6 alkyl, C3-C7 cycloalkyl, optionally substituted C3-C7 heterocycloalkyl, --(CH.sub.2).sub.p-heteroaryl, heteroaryl-carbonyl, phenylcarbonyl, (C1-C6)alkylcarbonyl,

--(CH.sub.2).sub.pCOOR, optionally substituted phenylsulphonyl or optionally substituted --(CH.sub.2).sub.p-phenyl group,

and, when X represents a carbon atom: p2 R3 represents a hydrogen atom or a group --NR5R6, --N(R5).sub.3.sup.+, --NHCOR7, --CONHR5, --COR7, --NHCONH.sub.2, --OH or --CH.sub.2OH,

R4 represents a hydrogen atom or an optionally substituted --(CH.sub.2).sub.p-phenyl, --(CH.sub.2).sub.p-heteroaryl or --(CH.sub.2).sub.tNR7R8 group.

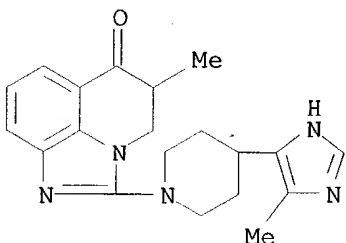
Preparation process and therapeutic application.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

IT 398457-80-2P, 5-Methyl-2-[4-(5-methylimidazol-4-yl)piperidin-1-yl]-4,5-dihydroimidazo[4,5,1-ij]quinolin-6-one 398457-81-3P, 1-[4-(5-Methylimidazol-4-yl)piperidin-1-yl]-8,9-dihydro-7H-2,9a-diazabenz[cd]azulen-6-one
(drug candidate; prepn. of fused benzimidazole derivs. as PARP inhibitors)

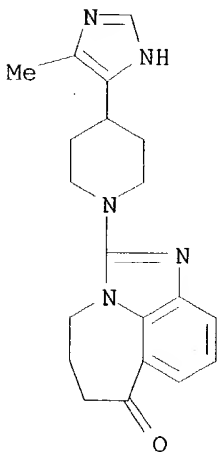
RN 398457-80-2 USPATFULL

CN 6H-Imidazo[4,5,1-ij]quinolin-6-one, 4,5-dihydro-5-methyl-2-[4-(5-methyl-1H-imidazol-4-yl)-1-piperidinyl]- (9CI) (CA INDEX NAME)



RN 398457-81-3 USPATFULL

CN Imidazo[4,5,1-jk][l]benzazepin-7(4H)-one, 5,6-dihydro-2-[4-(5-methyl-1H-imidazol-4-yl)-1-piperidinyl]- (9CI) (CA INDEX NAME)



L10 ANSWER 29 OF 38 USPATFULL on STN

ACCESSION NUMBER: 2002:149314 USPATFULL

TITLE: Heterocyclic amino substituted heteroaryl fused

INVENTOR(S): pyridines; GABA brain receptor ligands
Cai, Guolin, Guilford, CT, UNITED STATES
Liu, Gang, Agoura, CA, UNITED STATES
Chen, Guoqing, North Branford, CT, UNITED STATES
PATENT ASSIGNEE(S): Albaugh, Pamela, Clinton, CT, UNITED STATES
Neurogen (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2002077474	A1	20020620
	US 6423711	B2	20020723
APPLICATION INFO.:	US 2000-736497	A1	20001213 (9)
RELATED APPLN. INFO.:	Continuation of Ser. No. US 1999-259146, filed on 26 Feb 1999, GRANTED, Pat. No. US 6166203		

	NUMBER	DATE
PRIORITY INFORMATION:	US 1998-76099P	19980226 (60)
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	APPLICATION	
LEGAL REPRESENTATIVE:	Steven J. Sarussi, McDonnell Boehnen Hulbert & Berghoff, 32nd Floor, 300 S. Wacker Drive, Chicago, IL, 60606	
NUMBER OF CLAIMS:	20	
EXEMPLARY CLAIM:	1	
LINE COUNT:	1508	
CAS INDEXING IS AVAILABLE FOR THIS PATENT.		
AB	Disclosed are compounds of the formula ##STR1##	

or the pharmaceutically acceptable non-toxic salts thereof

wherein:

n is an integer from 0 to 3;

the C ring is aryl or heteroaryl;

X is CH, N, or O

Z represents an electron pair, hydrogen, or (un)substituted heterocycle, aryl, or amido;

W is (un)substituted alkyl, aryl, or heteroaryl;

A and B are hydrogen or lower alkyl,

which compounds are highly selective agonists, antagonists or inverse agonists for GABA_A brain receptors or prodrugs of agonists, antagonists or inverse agonists for GABA_A brain receptors. These compounds are useful in the diagnosis and treatment of anxiety, Down Syndrome, sleep, cognitive and seizure disorders, and overdose with benzodiazepine drugs and for enhancement of alertness.

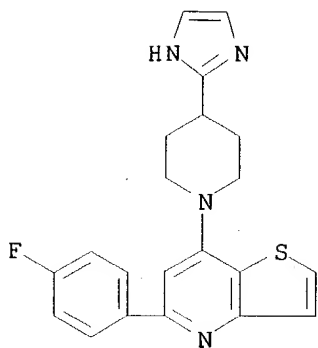
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

IT 239799-72-5P 239799-74-7P 239799-75-8P

(prepn. of 1-(5-arylthieno[3,2-b]pyridin-7-yl)piperidine-4-carboxamides and analogs as GABA_A receptor ligands)

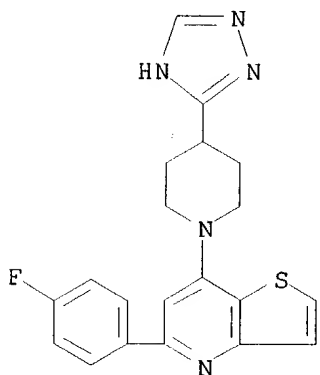
RN 239799-72-5 USPTAFULL

CN Thieno[3,2-b]pyridine, 5-(4-fluorophenyl)-7-[4-(1H-imidazol-2-yl)-1-piperidinyl]- (9CI) (CA INDEX NAME)



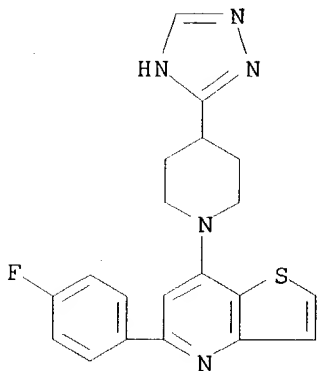
RN 239799-74-7 USPATFULL

CN Thieno[3,2-b]pyridine, 5-(4-fluorophenyl)-7-[4-(1H-1,2,4-triazol-3-yl)-1-piperidinyl]- (9CI) (CA INDEX NAME)



RN 239799-75-8 USPATFULL

CN Thieno[3,2-b]pyridine, 5-(4-fluorophenyl)-7-[4-(1H-1,2,4-triazol-3-yl)-1-piperidinyl]-, monohydrochloride (9CI) (CA INDEX NAME)



● HCl

L10 ANSWER 30 OF 38 USPATFULL on STN
ACCESSION NUMBER: 2002:224619 USPATFULL
TITLE: 4-phenyl-4-heteroaryl piperidine derivatives
INVENTOR(S): Liras, Spiros, Stonington, CT, United States
McHardy, Stanton F., Coventry, RI, United States
PATENT ASSIGNEE(S): Pfizer Inc, New York, NY, United States (U.S.
corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 6444679	B1	20020903
APPLICATION INFO.:	US 2000-503679		20000214 (9)

	NUMBER	DATE
PRIORITY INFORMATION:	US 1999-121156P	19990222 (60)
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	GRANTED	
PRIMARY EXAMINER:	Shah, Mukund J.	
ASSISTANT EXAMINER:	Truong, Tamthom N.	
LEGAL REPRESENTATIVE:	Richardson, Peter C., Ginsburg, Paul H., Jacobs, Seth H.	
NUMBER OF CLAIMS:	9	
EXEMPLARY CLAIM:	1	
NUMBER OF DRAWINGS:	0 Drawing Figure(s); 0 Drawing Page(s)	
LINE COUNT:	1963	

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The present invention relates to compounds of the formula I, ##STR1##

wherein Z.sup.1, X, Y, ().sub.n, R.sub.1, R.sup.2 and R.sup.3 are defined as in the specification, pharmaceutical compositions containing such compounds; and the use of such compounds to treat neurological and gastrointestinal disorders.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

IT 291753-96-3P 291753-97-4P 291753-99-6P

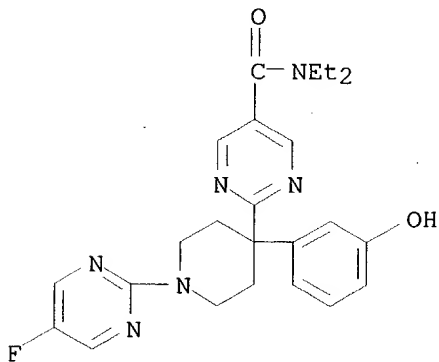
291754-01-3P 291754-03-5P 291754-38-6P

291754-39-7P 291754-40-0P 291754-41-1P

(prepn. of phenylheteroaryl piperidines as ligands for opioid receptors and drugs)

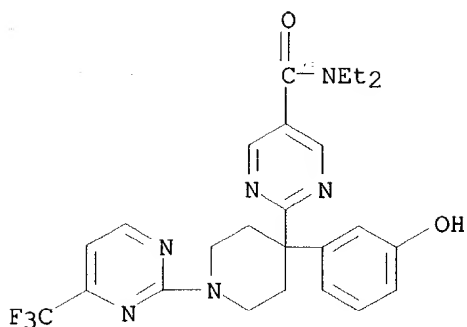
RN 291753-96-3 USPATFULL

CN 5-Pyrimidinecarboxamide, N,N-diethyl-2-[1-(5-fluoro-2-pyrimidinyl)-4-(3-hydroxyphenyl)-4-piperidinyl]- (9CI) (CA INDEX NAME)



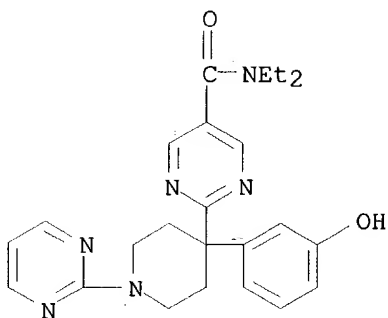
RN 291753-97-4 USPATFULL

CN 5-Pyrimidinecarboxamide, N,N-diethyl-2-[4-(3-hydroxyphenyl)-1-[4-(trifluoromethyl)-2-pyrimidinyl]-4-piperidinyl]- (9CI) (CA INDEX NAME)



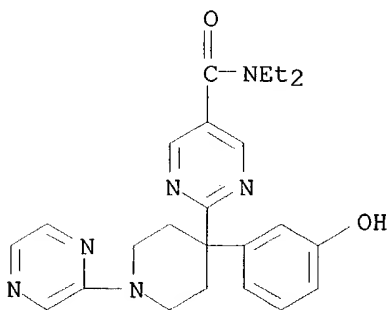
RN 291753-99-6 USPATFULL

CN 5-Pyrimidinecarboxamide, N,N-diethyl-2-[4-(3-hydroxyphenyl)-1-(2-pyrimidinyl)-4-piperidinyl]- (9CI) (CA INDEX NAME)



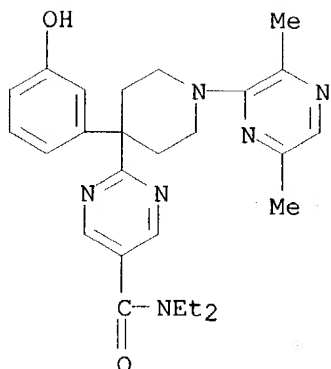
RN 291754-01-3 USPATFULL

CN 5-Pyrimidinecarboxamide, N,N-diethyl-2-[4-(3-hydroxyphenyl)-1-pyrazinyl-4-piperidinyl]- (9CI) (CA INDEX NAME)



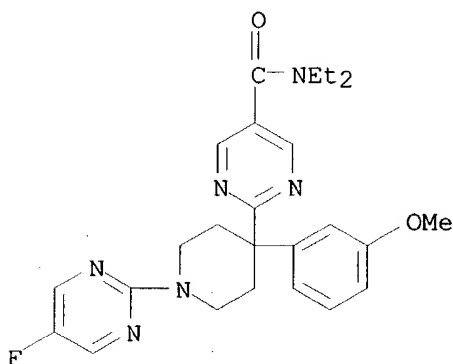
RN 291754-03-5 USPATFULL

CN 5-Pyrimidinecarboxamide, 2-[1-(3,6-dimethylpyrazinyl)-4-(3-hydroxyphenyl)-4-piperidinyl]-N,N-diethyl- (9CI) (CA INDEX NAME)



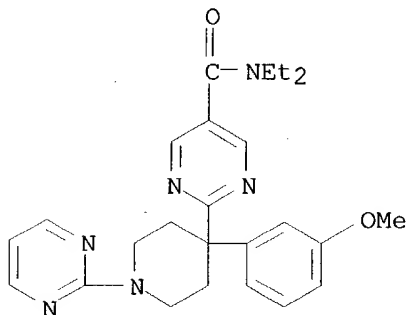
RN 291754-38-6 USPATFULL

CN 5-Pyrimidinecarboxamide, N,N-diethyl-2-[1-(5-fluoro-2-pyrimidinyl)-4-(3-methoxyphenyl)-4-piperidinyl]- (9CI) (CA INDEX NAME)



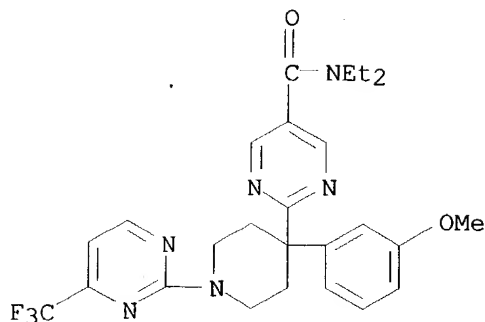
RN 291754-39-7 USPATFULL

CN 5-Pyrimidinecarboxamide, N,N-diethyl-2-[4-(3-methoxyphenyl)-1-(2-pyrimidinyl)-4-piperidinyl]- (9CI) (CA INDEX NAME)



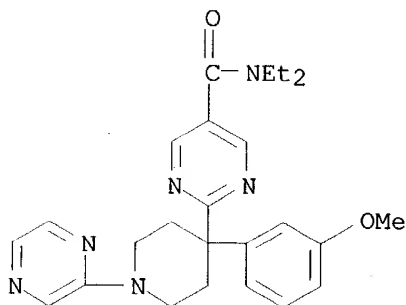
RN 291754-40-0 USPATFULL

CN 5-Pyrimidinecarboxamide, N,N-diethyl-2-[4-(3-methoxyphenyl)-1-[4-(trifluoromethyl)-2-pyrimidinyl]-4-piperidinyl]- (9CI) (CA INDEX NAME)



RN 291754-41-1 USPATFULL

CN 5-Pyrimidinecarboxamide, N,N-diethyl-2-[4-(3-methoxyphenyl)-1-pyrazinyl-4-piperidinyl]- (9CI) (CA INDEX NAME)



L10 ANSWER 31 OF 38 USPATFULL on STN

ACCESSION NUMBER: 2002:181689 USPATFULL

TITLE: 2,4-Substituted imidazolidine derivatives, their preparation, their use and pharmaceutical preparations comprising them

INVENTOR(S): Wehner, Volkmar, Sandberg, GERMANY, FEDERAL REPUBLIC OF
Stilz, Hans Ulrich, Frankfurt, GERMANY, FEDERAL REPUBLIC OF
Schmidt, Wolfgang, Frankfurt, GERMANY, FEDERAL REPUBLIC OF
Seiffge, Dirk, Mainz-Kostheim, GERMANY, FEDERAL REPUBLIC OF

PATENT ASSIGNEE(S): Aventis Pharma Deutschland GmbH, Frankfurt am Main, GERMANY, FEDERAL REPUBLIC OF (non-U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 6423712	B1	20020723
APPLICATION INFO.:	US 1998-157241		19980918 (9)

	NUMBER	DATE
PRIORITY INFORMATION:	DE 1997-19741235	19970918
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	GRANTED	
PRIMARY EXAMINER:	Higel, Floyd D.	
LEGAL REPRESENTATIVE:	Heller Ehrman White and McAuliffe LLP	
NUMBER OF CLAIMS:	17	
EXEMPLARY CLAIM:	1	

NUMBER OF DRAWINGS: 0 Drawing Figure(s); 0 Drawing Page(s)

LINE COUNT: 3260

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The present invention relates to imidazolidine compounds of the formula I, ##STR1##

The compounds of the formula I are valuable pharmaceutical active compounds, which are suitable, for example, for the therapy and prophylaxis of inflammatory disorders, for example of rheumatoid arthritis, or of allergic disorders. The compounds of the formula I are inhibitors of the adhesion and migration of leucocytes and/or antagonists of the adhesion receptor VLA-4 belonging to the integrins group. They are generally suitable for the therapy or prophylaxis of illnesses which are caused by an undesired extent of leucocyte adhesion and/or leucocyte migration or are associated therewith, or in which cell-cell or cell-matrix interactions which are based on interactions of VLA-4 receptors with their ligands play a part. The invention furthermore relates to processes for the preparation of the compounds of the formula I, their use in the therapy and prophylaxis of the disease states mentioned and pharmaceutical preparations which contain compounds of the formula I.

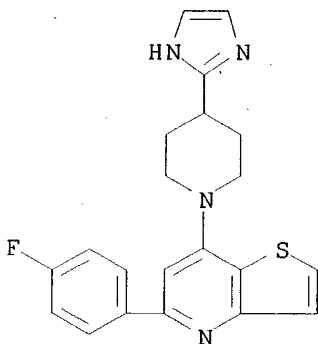
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

IT 239799-72-5P 239799-74-7P 239799-75-8P

(prepn. of 1-(5-arylthieno[3,2-b]pyridin-7-yl)piperidine-4-carboxamides and analogs as GABAA receptor ligands)

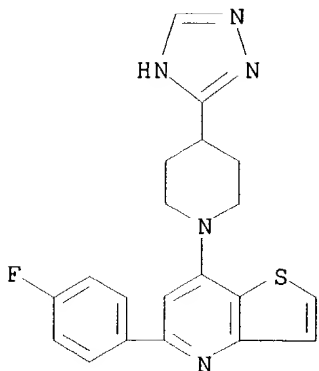
RN 239799-72-5 USPTFULL

CN Thieno[3,2-b]pyridine, 5-(4-fluorophenyl)-7-[4-(1H-imidazol-2-yl)-1-piperidinyl]- (9CI) (CA INDEX NAME)



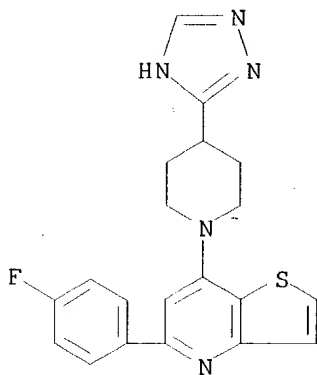
RN 239799-74-7 USPTFULL

CN Thieno[3,2-b]pyridine, 5-(4-fluorophenyl)-7-[4-(1H-1,2,4-triazol-3-yl)-1-piperidinyl]- (9CI) (CA INDEX NAME)



RN 239799-75-8 USPTFULL

CN Thieno[3,2-b]pyridine, 5-(4-fluorophenyl)-7-[4-(1H-1,2,4-triazol-3-yl)-1-piperidinyl]-, monohydrochloride (9CI) (CA INDEX NAME)



● HCl

L10 ANSWER 32 OF 38 USPTFULL on STN

ACCESSION NUMBER: 2001:168140 USPTFULL

TITLE: Aryl and heteroaryl substituted pyridino derivatives
GABA brain receptor ligands

INVENTOR(S): Cai, Guolin, Guilford, CT, United States

Liu, Gang, Agoura, CA, United States

Albaugh, Pamela A., Clinton, CT, United States

PATENT ASSIGNEE(S): Neurogen Corporation, Branford, CT, United States (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 6297256	B1	20011002
APPLICATION INFO.:	US 2000-596031		20000615 (9)

	NUMBER	DATE
PRIORITY INFORMATION:	US 1999-139202P	19990615 (60)
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	GRANTED	

PRIMARY EXAMINER: Davis, Zinna Northington
LEGAL REPRESENTATIVE: McDonnell Boehnen Hulbert & Berghoff
NUMBER OF CLAIMS: 22
EXEMPLARY CLAIM: 1
LINE COUNT: 1011

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB Disclosed are aryl and heteroaryl substituted pyridino compounds. These compounds are highly selective agonists, antagonists or inverse agonists for GABA.sub.A brain receptors or prodrugs of agonists, antagonists or inverse agonists for GABA.sub.A brain receptors and are therefore useful in the diagnosis and treatment of anxiety, depression, Down Syndrome, sleep and seizure disorders, overdose with benzodiazepine drugs and for enhancement of memory. Pharmaceutical compositions, including packaged pharmaceutical compositions, are further provided. Compounds of the invention are also useful as probes for the localization of GABA.sub.A receptors in tissue samples.

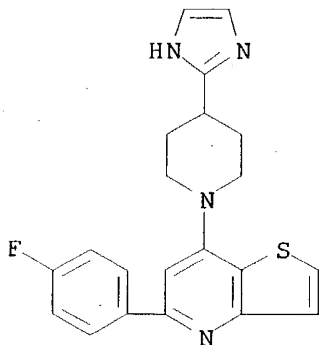
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

IT 239799-72-5P 239799-74-7P 239799-75-8P

(prepn. of aryl and heteroaryl substituted thienopyridines and quinolines as GABA brain receptor ligands)

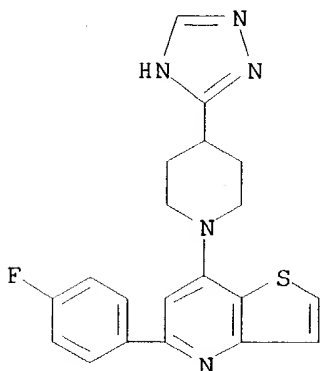
RN 239799-72-5 USPATFULL

CN Thieno[3,2-b]pyridine, 5-(4-fluorophenyl)-7-[4-(1H-imidazol-2-yl)-1-piperidinyl]- (9CI) (CA INDEX NAME)



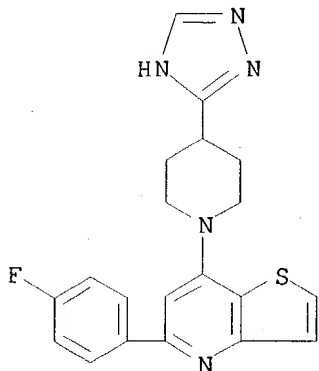
RN 239799-74-7 USPATFULL

CN Thieno[3,2-b]pyridine, 5-(4-fluorophenyl)-7-[4-(1H-1,2,4-triazol-3-yl)-1-piperidinyl]- (9CI) (CA INDEX NAME)



RN 239799-75-8 USPATFULL

CN Thieno[3,2-b]pyridine, 5-(4-fluorophenyl)-7-[4-(1H-1,2,4-triazol-3-yl)-1-piperidinyl]-, monohydrochloride (9CI) (CA INDEX NAME)



● HCl

L10 ANSWER 33 OF 38 USPATFULL on STN
ACCESSION NUMBER: 2000:174829 USPATFULL
TITLE: Heterocyclic amino substituted heteroaryl fused
pyridines; GABA brain receptor ligands
INVENTOR(S): Cai, Guolin, Guilford, CT, United States
Liu, Gang, Agoura, CA, United States
Chen, Guoqing, North Branford, CT, United States
Albaugh, Pamela A., Clinton, CT, United States
PATENT ASSIGNEE(S): Neurogen Corporation, Branford, CT, United States (U.S.
corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 6166203		20001226
APPLICATION INFO.:	US 1999-259146		19990226 (9)
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	Granted		
PRIMARY EXAMINER:	Higel, Floyd D.		
LEGAL REPRESENTATIVE:	McDonnell Boehnen Hulbert & Berghoff		
NUMBER OF CLAIMS:	18		
EXEMPLARY CLAIM:	1		
LINE COUNT:	1455		

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB Disclosed are compounds of the formula ##STR1## or the pharmaceutically acceptable non-toxic salts thereof wherein: n is an integer from 0 to 3;

the C ring is aryl or heteroaryl;

X is CH, N, or O

Z represents an electron pair, hydrogen, or (un)substituted heterocycle, aryl, or amido;

W is (un)substituted alkyl, aryl, or heteroaryl;

A and B are hydrogen or lower alkyl,

which compounds are highly selective agonists, antagonists or inverse

agonists for GABA_A brain receptors or prodrugs of agonists, antagonists or inverse agonists for GABA_A brain receptors. These compounds are useful in the diagnosis and treatment of anxiety, Down Syndrome, sleep, cognitive and seizure disorders, and overdose with benzodiazepine drugs and for enhancement of alertness.

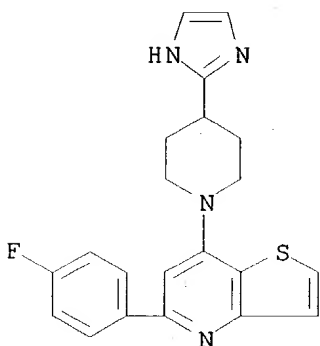
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

IT 239799-72-5P 239799-74-7P 239799-75-8P

(prepn. of 1-(5-arylthieno[3,2-b]pyridin-7-yl)piperidine-4-carboxamides and analogs as GABA_A receptor ligands)

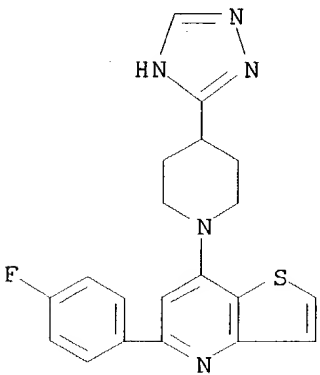
RN 239799-72-5 USPATFULL

CN Thieno[3,2-b]pyridine, 5-(4-fluorophenyl)-7-[4-(1H-imidazol-2-yl)-1-piperidinyl]- (9CI) (CA INDEX NAME)



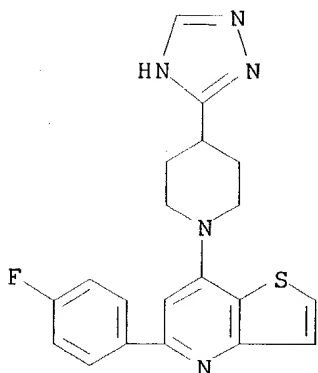
RN 239799-74-7 USPATFULL

CN Thieno[3,2-b]pyridine, 5-(4-fluorophenyl)-7-[4-(1H-1,2,4-triazol-3-yl)-1-piperidinyl]- (9CI) (CA INDEX NAME)



RN 239799-75-8 USPATFULL

CN Thieno[3,2-b]pyridine, 5-(4-fluorophenyl)-7-[4-(1H-1,2,4-triazol-3-yl)-1-piperidinyl]-, monohydrochloride (9CI) (CA INDEX NAME)



● HCl

L10 ANSWER 34 OF 38 USPATFULL on STN
 ACCESSION NUMBER: 1999:146577 USPATFULL
 TITLE: Angiogenesis inhibiting pyridazinamines
 INVENTOR(S): Stokbroekx, Raymond Antoine, Beerse, Belgium
 Van der Aa, Marcel Jozef Maria, Turnhout, Belgium
 Willems, Marc, Vosselaar, Belgium
 Meerpoel, Lieven, Merksplas, Belgium
 Luyckx, Marcel Gerebernus Maria, Geel, Belgium
 Tuman, Robert, Spring House, PA, United States
 PATENT ASSIGNEE(S): Janssen Pharmaceuticals, N.V., Beerse, Belgium
 (non-U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 5985878		19991116
APPLICATION INFO.:	US 1998-119075		19980709 (9)

	NUMBER	DATE
PRIORITY INFORMATION:	EP 1996-200085	19960115
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	Granted	
PRIMARY EXAMINER:	Ambrose, Michael G.	
LEGAL REPRESENTATIVE:	Coletti, Ellen Ciambrone	
NUMBER OF CLAIMS:	10	
EXEMPLARY CLAIM:	1	
LINE COUNT:	1252	

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB This invention concerns compounds of formula the N-oxide forms, the pharmaceutically acceptable acid addition salts and stereochemically isomeric forms thereof, wherein X is CH or N; m is 2 or 3 and n is 1, 2 or 3; wherein 1 or 2 C-atoms of the CH.sub.2 groups of the ##STR1## moiety which may also contain one double bond, may be substituted with C.sub.1-6 alkyl, amino, aminocarbonyl, mono- or di(C.sub.1-6 alkyl)amino, C.sub.1-6 alkyloxycarbonyl, C.sub.1-6 alkylcarbonylamino, hydroxy or C.sub.1-6 alkyloxy; and/or 2 C-atoms of said CH.sub.2 groups may be bridged with C.sub.2-4 alkanediyl; R.sup.1 is hydrogen, C.sub.1-6 alkyl, C.sub.1-6 alkyloxy, C.sub.1-6 alkylthio, amino, mono- or di(C.sub.1-6 alkyl)amino, Ar, ArNH--, C.sub.3-6 cycloalkyl, hydroxymethyl or benzyloxymethyl; R.sup.2 and R.sup.3 are hydrogen, or taken together may form a bivalent radical of formula

--CH.dbd.CH--CH.dbd.CH--; in case X represents CH then L is a radical L.sup.1, L.sup.2 or L.sup.3 ; or in case X represents N then L is a radical L.sup.2 or L.sup.3 ; L.sup.1 is Ar-C.sub.1-6 alkyloxy, Ar-oxy, Ar-thio, Ar-carbonylamino, di-Ar-methyloxy-, N-Ar-piperazinyl, N-Ar-homopiperazinyl, 2-benzimidazolinonyl, Ar--NR.sup.4 --, Ar-Alk-NR.sup.4 --, Ar--NR.sup.4 -Alk-NR.sup.5 -- or Het-NR.sup.4 --; L.sup.2 is Ar, Ar-carbonyl, Ar--CH.dbd.CH--CH.sub.2 --, naphtalenyl or Het; L.sup.3 is C.sub.1-6 alkyl substituted with one or two radicals selected from Ar, Ar-oxy, or Ar-thio, further optionally substituted with cyano or hydroxy; 2,2-dimethyl-1,2,3,4-tetrahydro-naphtalenyl; 2,2-dimethyl-1H-2,3-dihydroindenyl; Ar-piperidinyl or Ar--NR.sup.4 -Alk-; R.sup.4 and R.sup.5 are each independently selected from hydrogen or C.sub.1-6 alkyl; Alk is C.sub.1-6 alkanediyl; their preparation, compositions containing them and their use as a medicine.

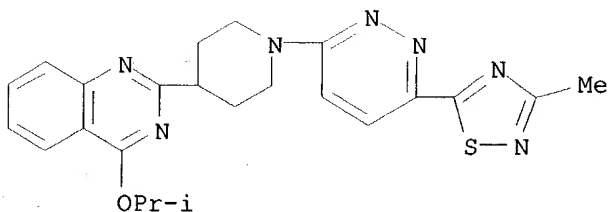
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

IT 193956-99-9P

(prepn. of thiadiazolylpyrazinylamines as angiogenesis inhibitors)

RN 193956-99-9 USPATFULL

CN Quinazoline, 4-(1-methylethoxy)-2-[1-[6-(3-methyl-1,2,4-thiadiazol-5-yl)-3-pyridazinyl]-4-piperidinyl]- (9CI) (CA INDEX NAME)



L10 ANSWER 35 OF 38 USPATFULL on STN

ACCESSION NUMBER: 96:120886 USPATFULL

TITLE: Imidazol-4-ylpiperidine derivatives, their preparation and their application in therapeutics

INVENTOR(S): Jegham, Samir, Argenteuil, France
Defosse, Gerard, Paris, France
Purcell, Thomas A., Montfort L'Amaury, France
Even, Luc, Paris, France

PATENT ASSIGNEE(S): Synthelabo, Le Plessis Robinson, France (non-U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 5589476		19961231
APPLICATION INFO.:	US 1994-317661		19941003 (8)

	NUMBER	DATE
PRIORITY INFORMATION:	FR 1993-11771	19931004
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	Granted	
PRIMARY EXAMINER:	Grumblin, Matthew V.	
LEGAL REPRESENTATIVE:	Jacobson, Price, Holman & Stern, PLLC	
NUMBER OF CLAIMS:	3	
EXEMPLARY CLAIM:	1	
LINE COUNT:	718	

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB A compound of formula (I): ##STR1## in which R.sub.1 represents a hydrogen atom or a straight or branched (C.sub.1 -C.sub.4)alkyl group;

and

A represents a 5,6-dihydro-4H-imidazo[4,5,1-ij]quinol-2-yl group, a 4,5-dihydroimidazo[1,5,4-de][1,4]benzoxazin-2-yl group, a 4-methyl-4,5-dihydroimidazo[1,5,4-de][1,4]benzoxazin-2-yl group, a 4-phenyl-4,5-dihydroimidazo[1,5,4-de][1,4]benzoxazin-2-yl group, a 4-phenylmethyl-4,5-dihydroimidazo[1,5,4-de][1,4]benzoxazin-2-yl group, a 5-methyl-4,5-dihydroimidazo[1,5,4-de][1,4]benzoxazin-2-yl group, a 5,6-dihydro-4H-imidazo[1,5,4-de]quinoxalin-2-yl group, a 6-oxo-5,6-dihydro-4H-imidazo[4,5,1-ij]quinol-2-yl group, or a 5-methyl-4,5,6,7-tetrahydroimidazo[4,5,1-jk][1,4]benzodiazepin-2-yl group which may be unsubstituted or substituted in the 6-position by a phenylmethyl group;

or an addition salt thereof with a pharmaceutically acceptable acid.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

IT 163120-16-9P 163120-26-1P 163120-32-9P

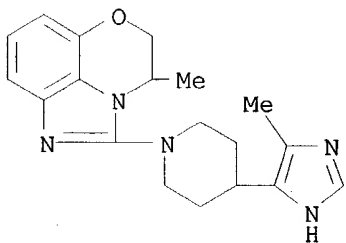
163120-34-1P 163120-36-3P 163120-38-5P

163120-40-9P 163120-42-1P 163120-44-3P

(prepn. of imidazolypiperidine derivs. as 5-HT3 and 5-HT4 receptor ligands)

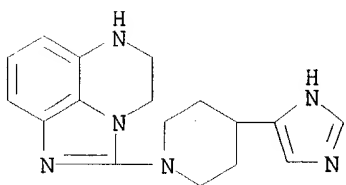
RN 163120-16-9 USPATFULL

CN Imidazo[1,5,4-de][1,4]benzoxazine, 4,5-dihydro-4-methyl-2-[4-(5-methyl-1H-imidazol-4-yl)-1-piperidinyl]- (9CI) (CA INDEX NAME)



RN 163120-26-1 USPATFULL

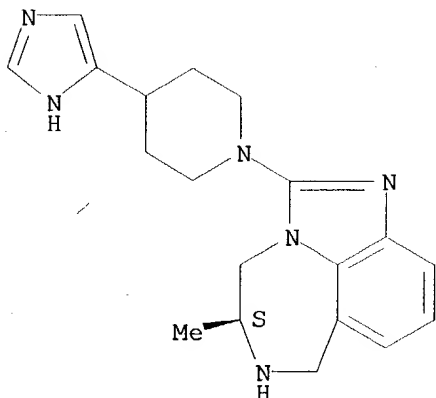
CN 4H-Imidazo[1,5,4-de]quinoxaline, 5,6-dihydro-2-[4-(1H-imidazol-4-yl)-1-piperidinyl]- (9CI) (CA INDEX NAME)



RN 163120-32-9 USPATFULL

CN Imidazo[4,5,1-jk][1,4]benzodiazepine, 4,5,6,7-tetrahydro-2-[4-(1H-imidazol-4-yl)-1-piperidinyl]-5-methyl-, (S)- (9CI) (CA INDEX NAME)

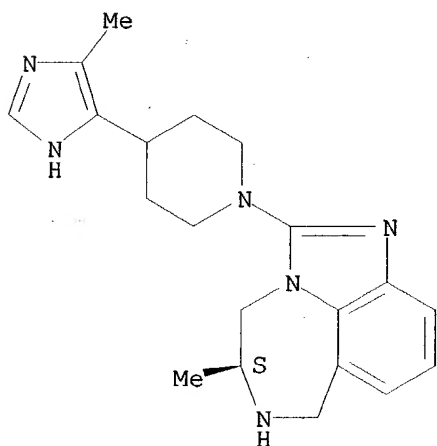
Absolute stereochemistry.



RN 163120-34-1 USPATFULL

CN Imidazo[4,5,1-jk][1,4]benzodiazepine, 4,5,6,7-tetrahydro-5-methyl-2-[4-(5-methyl-1H-imidazol-4-yl)-1-piperidinyl]-, (S)- (9CI) (CA INDEX NAME)

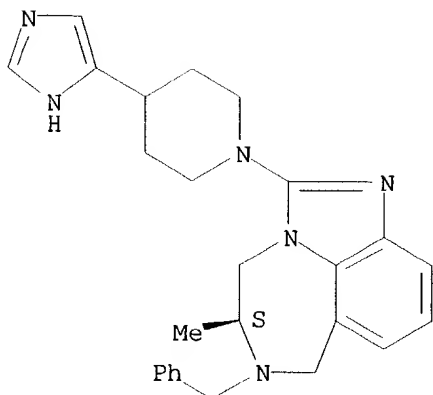
Absolute stereochemistry.



RN 163120-36-3 USPATFULL

CN Imidazo[4,5,1-jk][1,4]benzodiazepine, 4,5,6,7-tetrahydro-2-[4-(1H-imidazol-4-yl)-1-piperidinyl]-5-methyl-6-(phenylmethyl)-, (S)- (9CI) (CA INDEX NAME)

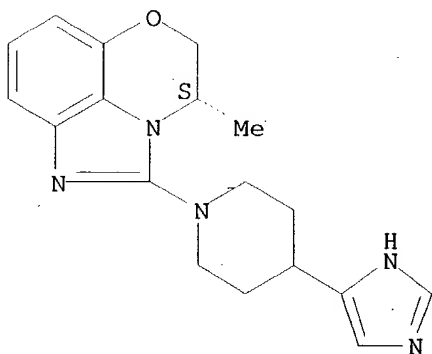
Absolute stereochemistry.



RN 163120-38-5 USPATFULL

CN Imidazo[1,5,4-de][1,4]benzoxazine, 4,5-dihydro-2-[4-(1H-imidazol-4-yl)-1-piperidinyl]-4-methyl-, (S)- (9CI) (CA INDEX NAME)

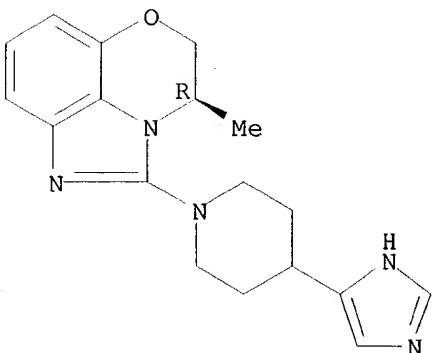
Absolute stereochemistry.



RN 163120-40-9 USPATFULL

CN Imidazo[1,5,4-de][1,4]benzoxazine, 4,5-dihydro-2-[4-(1H-imidazol-4-yl)-1-piperidinyl]-4-methyl-, (R)- (9CI) (CA INDEX NAME)

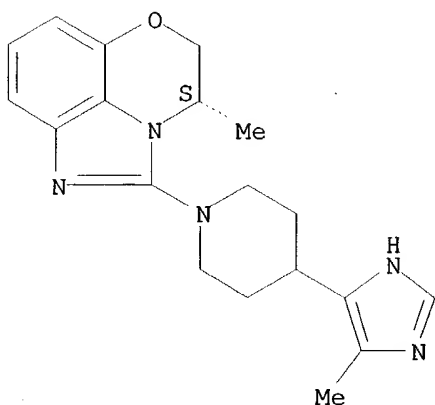
Absolute stereochemistry.



RN 163120-42-1 USPATFULL

CN Imidazo[1,5,4-de][1,4]benzoxazine, 4,5-dihydro-4-methyl-2-[4-(5-methyl-1H-imidazol-4-yl)-1-piperidinyl]-, (S)- (9CI) (CA INDEX NAME)

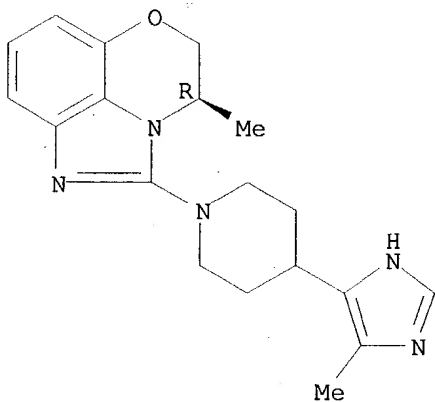
Absolute stereochemistry.



RN 163120-44-3 USPATFULL

CN Imidazo[1,5,4-de][1,4]benzoxazine, 4,5-dihydro-4-methyl-2-[4-(5-methyl-1H-imidazol-4-yl)-1-piperidinyl]-, (R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

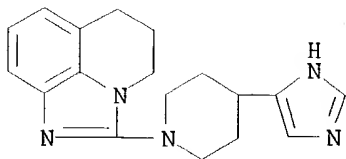


IT 163120-06-7P 163120-07-8P 163120-08-9P
163120-09-0P 163120-11-4P 163120-13-6P
163120-15-8P 163120-17-0P 163120-19-2P
163120-21-6P 163120-22-7P 163120-23-8P
163120-25-0P 163120-27-2P 163120-29-4P
163120-30-7P 163120-31-8P 163120-33-0P
163120-35-2P 163120-37-4P 163120-39-6P
163120-41-0P 163120-43-2P 163120-45-4P
163120-46-5P 163120-47-6P

(prepn. of imidazolylpiperidine derivs. as 5-HT3 and 5-HT4 receptor ligands)

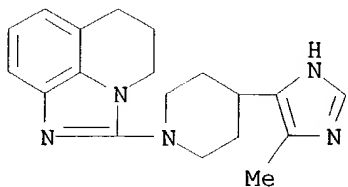
RN 163120-06-7 USPATFULL

CN 4H-Imidazo[4,5,1-ij]quinoline, 5,6-dihydro-2-[4-(1H-imidazol-4-yl)-1-piperidinyl]- (9CI) (CA INDEX NAME)



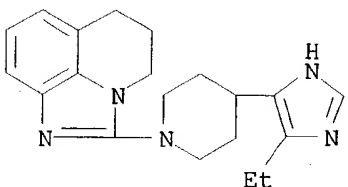
RN 163120-07-8 USPATFULL

CN 4H-Imidazo[4,5,1-ij]quinoline, 5,6-dihydro-2-[4-(5-methyl-1H-imidazol-4-yl)-1-piperidinyl]- (9CI) (CA INDEX NAME)



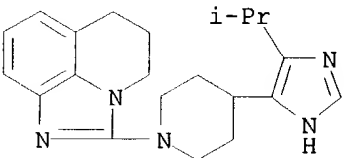
RN 163120-08-9 USPATFULL

CN 4H-Imidazo[4,5,1-ij]quinoline, 2-[4-(5-ethyl-1H-imidazol-4-yl)-1-piperidinyl]-5,6-dihydro- (9CI) (CA INDEX NAME)



RN 163120-09-0 USPATFULL

CN 4H-Imidazo[4,5,1-ij]quinoline, 5,6-dihydro-2-[4-[5-(1-methylethyl)-1H-imidazol-4-yl]-1-piperidinyl]- (9CI) (CA INDEX NAME)



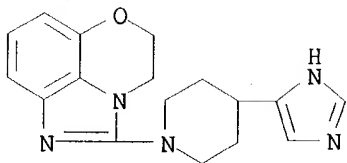
RN 163120-11-4 USPATFULL

CN Imidazo[1,5,4-de][1,4]benzoxazine, 4,5-dihydro-2-[4-(1H-imidazol-4-yl)-1-piperidinyl]-, (2Z)-2-butenedioate (1:2) (9CI) (CA INDEX NAME)

CM 1

CRN 163120-10-3

CMF C17 H19 N5 O



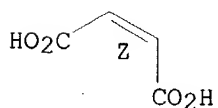
CM 2

CRN 110-16-7

CMF C4 H4 O4

CDES 2:Z

Double bond geometry as shown.



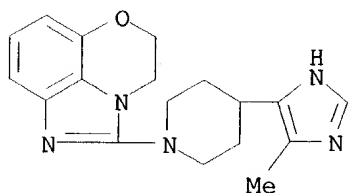
RN 163120-13-6 USPATFULL

CN Imidazo[1,5,4-de][1,4]benzoxazine, 4,5-dihydro-2-[4-(5-methyl-1H-imidazol-4-yl)-1-piperidinyl]-, (2Z)-2-butenedioate (1:2) (9CI) (CA INDEX NAME)

CM 1

CRN 163120-12-5

CMF C18 H21 N5 O



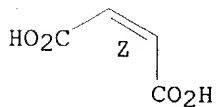
CM 2

CRN 110-16-7

CMF C4 H4 O4

CDES 2:Z

Double bond geometry as shown.

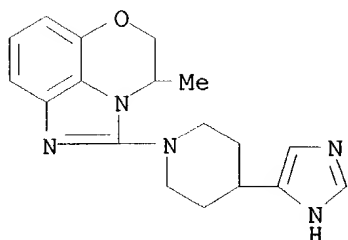


RN 163120-15-8 USPATFULL

CN Imidazo[1,5,4-de][1,4]benzoxazine, 4,5-dihydro-2-[4-(1H-imidazol-4-yl)-1-piperidinyl]-4-methyl-, (2Z)-2-butenedioate (1:2) (9CI) (CA INDEX NAME)

CM 1

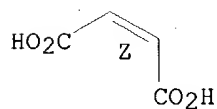
CRN 163120-14-7
CMF C18 H21 N5 O



CM 2

CRN 110-16-7
CMF C4 H4 O4
CDES 2:Z

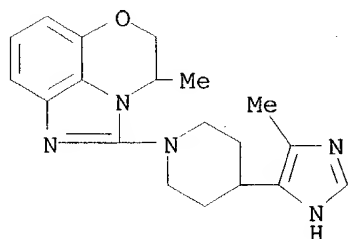
Double bond geometry as shown.



RN 163120-17-0 USPATFULL
CN Imidazo[1,5,4-de][1,4]benzoxazine, 4,5-dihydro-4-methyl-2-[4-(5-methyl-1H-imidazol-4-yl)-1-piperidinyl]-, (2Z)-2-butenedioate (1:2) (9CI) (CA INDEX NAME)

CM 1

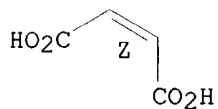
CRN 163120-16-9
CMF C19 H23 N5 O



CM 2

CRN 110-16-7
CMF C4 H4 O4
CDES 2:Z

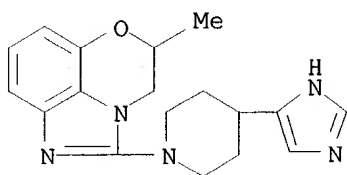
Double bond geometry as shown.



RN 163120-19-2 USPATFULL
CN Imidazo[1,5,4-de][1,4]benzoxazine, 4,5-dihydro-2-[4-(1H-imidazol-4-yl)-1-piperidinyl]-5-methyl-, (2Z)-2-butenedioate (1:2) (9CI) (CA INDEX NAME)

CM 1

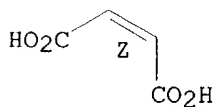
CRN 163120-18-1
CMF C18 H21 N5 O



CM 2

CRN 110-16-7
CMF C4 H4 O4
CDES 2:Z

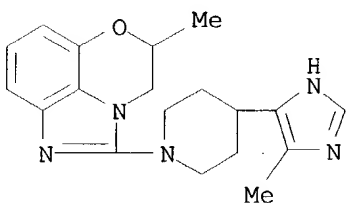
Double bond geometry as shown.



RN 163120-21-6 USPATFULL
CN Imidazo[1,5,4-de][1,4]benzoxazine, 4,5-dihydro-5-methyl-2-[4-(5-methyl-1H-imidazol-4-yl)-1-piperidinyl]-, ethanedioate (1:2) (9CI) (CA INDEX NAME)

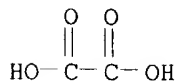
CM 1

CRN 163120-20-5
CMF C19 H23 N5 O



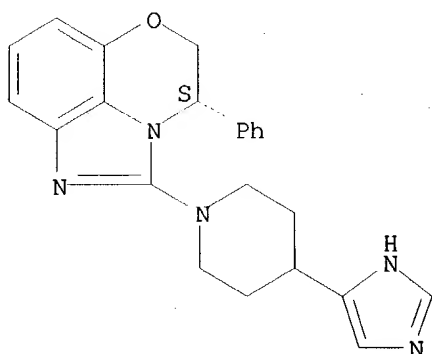
CM 2

CRN 144-62-7
CMF C2 H2 O4



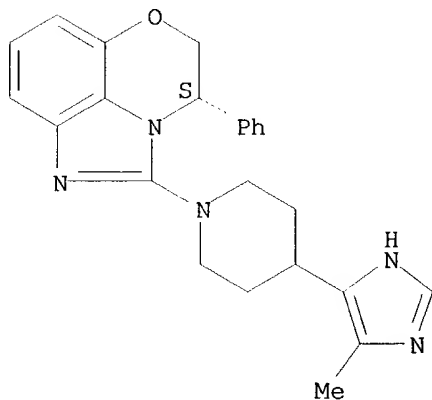
RN 163120-22-7 USPATFULL
CN Imidazo[1,5,4-de][1,4]benzoxazine, 4,5-dihydro-2-[4-(1H-imidazol-4-yl)-1-piperidinyl]-4-phenyl-, (S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 163120-23-8 USPATFULL
CN Imidazo[1,5,4-de][1,4]benzoxazine, 4,5-dihydro-2-[4-(5-methyl-1H-imidazol-4-yl)-1-piperidinyl]-4-phenyl-, (S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

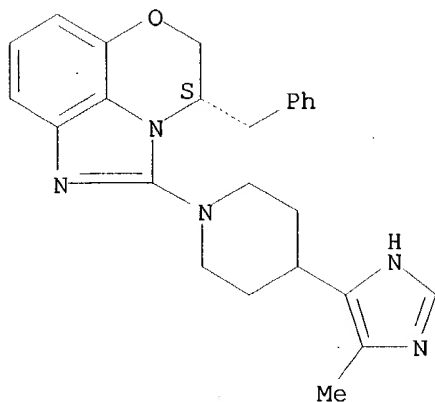


RN 163120-25-0 USPATFULL
CN Imidazo[1,5,4-de][1,4]benzoxazine, 4,5-dihydro-2-[4-(5-methyl-1H-imidazol-4-yl)-1-piperidinyl]-4-(phenylmethyl)-, (4S)-, (2E)-2-butenedioate (1:1) (9CI) (CA INDEX NAME)

CM 1

CRN 163120-24-9
CMF C25 H27 N5 O
CDES 1:S

Absolute stereochemistry.



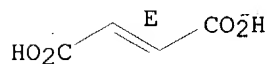
CM 2

CRN 110-17-8

CMF C4 H4 O4

CDES 2:E

Double bond geometry as shown.



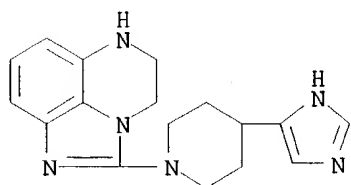
RN 163120-27-2 USPATFULL

CN 4H-Imidazo[1,5,4-de]quinoxaline, 5,6-dihydro-2-[4-(1H-imidazol-4-yl)-1-piperidinyl]-, ethanedioate (2:3) (9CI) (CA INDEX NAME)

CM 1

CRN 163120-26-1

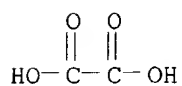
CMF C17 H20 N6



CM 2

CRN 144-62-7

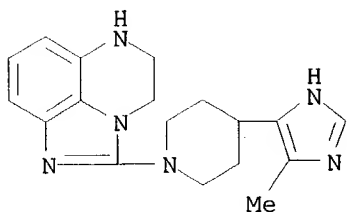
CMF C2 H2 O4



RN 163120-29-4 USPATFULL
CN 4H-Imidazo[1,5,4-de]quinoxaline, 5,6-dihydro-2-[4-(5-methyl-1H-imidazol-4-yl)-1-piperidinyl]-, ethanedioate (1:1) (9CI) (CA INDEX NAME)

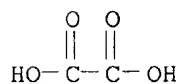
CM 1

CRN 163120-28-3
CMF C18 H22 N6

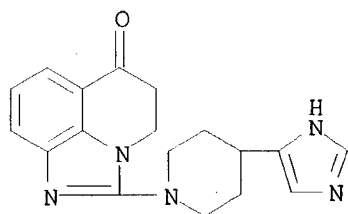


CM 2

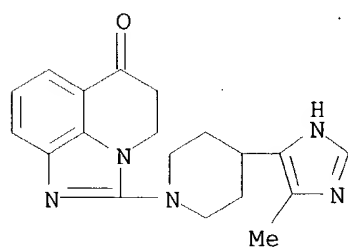
CRN 144-62-7
CMF C2 H2 O4



RN 163120-30-7 USPATFULL
CN 6H-Imidazo[4,5,1-ij]quinolin-6-one, 4,5-dihydro-2-[4-(1H-imidazol-4-yl)-1-piperidinyl]- (9CI) (CA INDEX NAME)



RN 163120-31-8 USPATFULL
CN 6H-Imidazo[4,5,1-ij]quinolin-6-one, 4,5-dihydro-2-[4-(5-methyl-1H-imidazol-4-yl)-1-piperidinyl]- (9CI) (CA INDEX NAME)

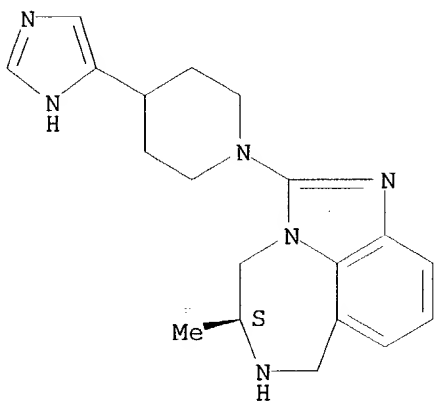


RN 163120-33-0 USPATFULL
CN Imidazo[4,5,1-jk][1,4]benzodiazepine, 4,5,6,7-tetrahydro-2-[4-(1H-imidazol-4-yl)-1-piperidinyl]-5-methyl-, (5S)-, (2Z)-2-butenedioate (1:3) (9CI)
(CA INDEX NAME)

CM 1

CRN 163120-32-9
CMF C19 H24 N6
CDES 1:S

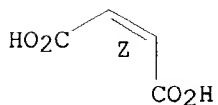
Absolute stereochemistry.



CM 2

CRN 110-16-7
CMF C4 H4 O4
CDES 2:Z

Double bond geometry as shown.

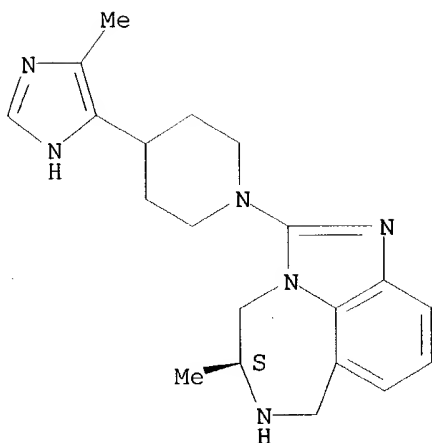


RN 163120-35-2 USPATFULL
CN Imidazo[4,5,1-jk][1,4]benzodiazepine, 4,5,6,7-tetrahydro-5-methyl-2-[4-(5-methyl-1H-imidazol-4-yl)-1-piperidinyl]-, (5S)-, (2E)-2-butenedioate (1:2) (9CI) (CA INDEX NAME)

CM 1

CRN 163120-34-1
CMF C20 H26 N6
CDES 1:S

Absolute stereochemistry.



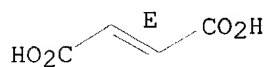
CM 2

CRN 110-17-8

CMF C4 H4 O4

CDES 2:E

Double bond geometry as shown.



RN 163120-37-4 USPATFULL

CN Imidazo[4,5,1-jk][1,4]benzodiazepine, 4,5,6,7-tetrahydro-2-[4-(1H-imidazol-4-yl)-1-piperidinyl]-5-methyl-6-(phenylmethyl)-, (5S)-, (2Z)-2-butenedioate (1:2) (9CI) (CA INDEX NAME)

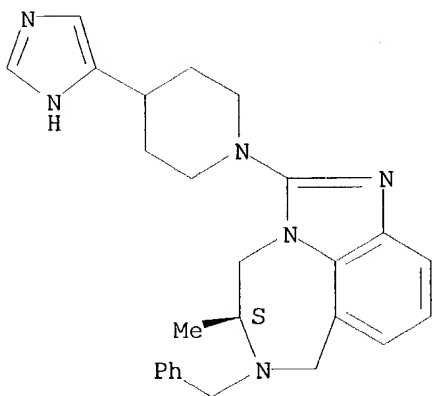
CM 1

CRN 163120-36-3

CMF C26 H30 N6

CDES 1:S

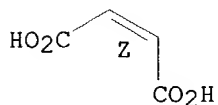
Absolute stereochemistry.



CM 2

CRN 110-16-7
CMF C4 H4 O4
CDES 2:Z

Double bond geometry as shown.

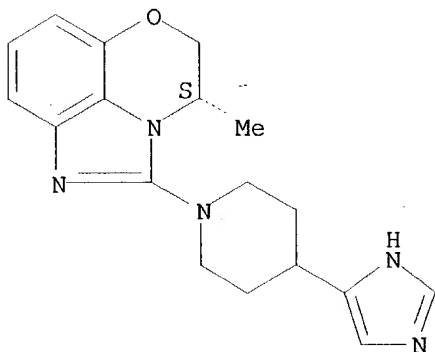


RN 163120-39-6 USPATFULL
CN Imidazo[1,5,4-de][1,4]benzoxazine, 4,5-dihydro-2-[4-(1H-imidazol-4-yl)-1-piperidinyl]-4-methyl-, (4S)-, (2Z)-2-butenedioate (1:2) (9CI) (CA INDEX NAME)

CM 1

CRN 163120-38-5
CMF C18 H21 N5 O
CDES 1:S

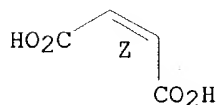
Absolute stereochemistry.



CM 2

CRN 110-16-7
CMF C4 H4 O4
CDES 2:Z

Double bond geometry as shown.

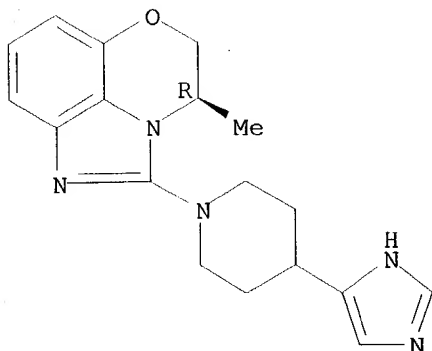


RN 163120-41-0 USPATFULL
CN Imidazo[1,5,4-de][1,4]benzoxazine, 4,5-dihydro-2-[4-(1H-imidazol-4-yl)-1-piperidinyl]-4-methyl-, (4R)-, (2Z)-2-butenedioate (1:2) (9CI) (CA INDEX NAME)

CM 1

CRN 163120-40-9
CMF C18 H21 N5 O
CDES 1:R

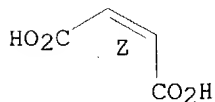
Absolute stereochemistry.



CM 2

CRN 110-16-7
CMF C4 H4 O4
CDES 2:Z

Double bond geometry as shown.

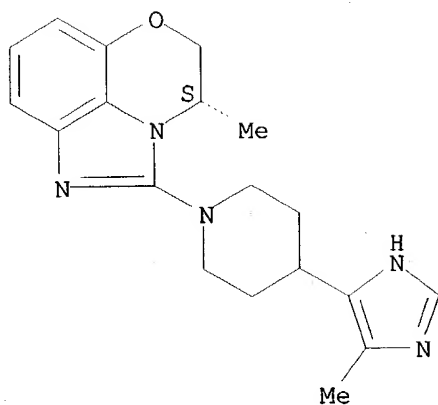


RN 163120-43-2 USPATFULL
CN Imidazo[1,5,4-de][1,4]benzoxazine, 4,5-dihydro-4-methyl-2-[4-(5-methyl-1H-imidazol-4-yl)-1-piperidinyl]-, (4S)-, (2Z)-2-butenedioate (1:2) (9CI)
(CA INDEX NAME)

CM 1

CRN 163120-42-1
CMF C19 H23 N5 O
CDES 1:S

Absolute stereochemistry.



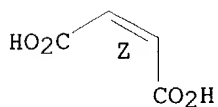
CM 2

CRN 110-16-7

CMF C4 H4 O4

CDES 2:Z

Double bond geometry as shown.



RN 163120-45-4 USPATFULL

CN Imidazo[1,5,4-de][1,4]benzoxazine, 4,5-dihydro-4-methyl-2-[4-(5-methyl-1H-imidazol-4-yl)-1-piperidinyl]-, (4R)-, (2Z)-2-butenedioate (1:2) (9CI)
(CA INDEX NAME)

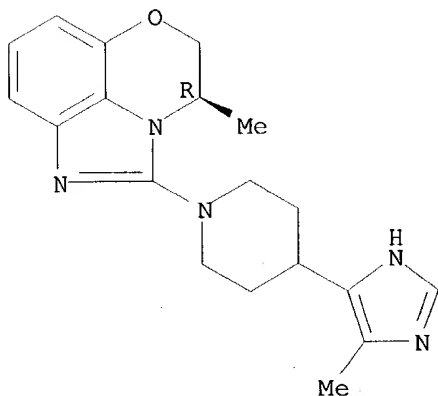
CM 1

CRN 163120-44-3

CMF C19 H23 N5 O

CDES 1:R

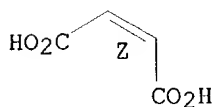
Absolute stereochemistry.



CM 2

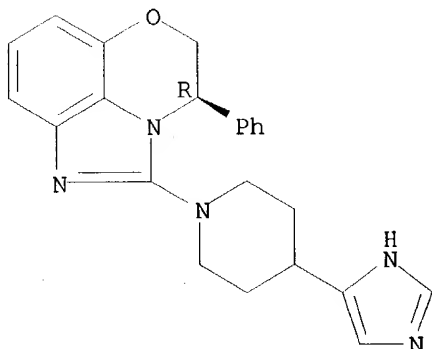
CRN 110-16-7
CMF C4 H4 O4
CDES 2:Z

Double bond geometry as shown.



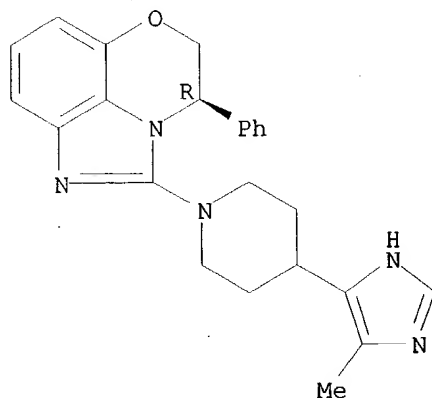
RN 163120-46-5 USPATFULL
CN Imidazo[1,5,4-de][1,4]benzoxazine, 4,5-dihydro-2-[4-(1H-imidazol-4-yl)-1-piperidinyl]-5-phenyl-, (R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 163120-47-6 USPATFULL
CN Imidazo[1,5,4-de][1,4]benzoxazine, 4,5-dihydro-2-[4-(5-methyl-1H-imidazol-4-yl)-1-piperidinyl]-4-phenyl-, (R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



L10 ANSWER 36 OF 38 USPATFULL on STN
ACCESSION NUMBER: 95:75971 USPATFULL
TITLE: Quinazolines derivatives for enhancing antitumor

activity
INVENTOR(S): Coe, Jotham W., Mystic, CT, United States
Fliri, Anton F. J., Norwich, CT, United States
Kaneko, Takushi, Guilford, CT, United States
Larson, Eric R., Mystic, CT, United States
PATENT ASSIGNEE(S): Pfizer Inc., New York, NY, United States (U.S.
corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 5444062		19950822
APPLICATION INFO.:	US 1993-50047		19930505 (8)
	WO 1991-US7254		19911010
			19930505 PCT 371 date
			19930505 PCT 102(e) date
RELATED APPLN. INFO.:	Continuation of Ser. No. US 1990-609986, filed on 6 Nov 1990, now abandoned		
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	Granted		
PRIMARY EXAMINER:	Shah, Mukund J.		
ASSISTANT EXAMINER:	Grumbling, Matthew V.		
LEGAL REPRESENTATIVE:	Richardson, Peter C. Benson Gregg C.		
NUMBER OF CLAIMS:	27		
EXEMPLARY CLAIM:	1		
LINE COUNT:	1512		
CAS INDEXING IS AVAILABLE FOR THIS PATENT.			
AB	2,4-Diaminoquinazoline derivatives as potentiators of chemotherapeutic agents in the treatment of cancer.		

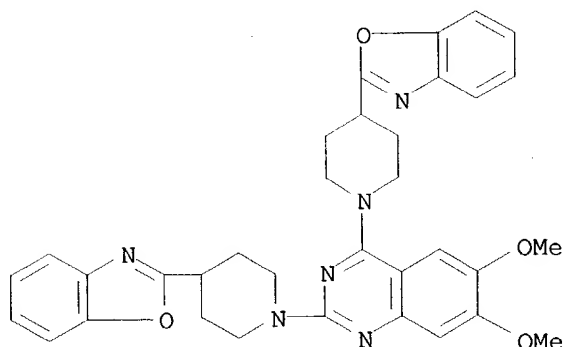
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

IT 142716-75-4P

(prepn. of, as P-glycoprotein inhibitor)

RN 142716-75-4 USPATFULL

CN Quinazoline, 2,4-bis[4-(2-benzoxazolyl)-1-piperidinyl]-6,7-dimethoxy-
(9CI) (CA INDEX NAME)



L10 ANSWER 37 OF 38 USPATFULL on STN

ACCESSION NUMBER: 95:45610 USPATFULL

TITLE: Piperidine derivatives, their preparation and their application in therapeutics

INVENTOR(S): Jegham, Samir, Argenteuil, France
Defosse, Gerard, Paris, France

PATENT ASSIGNEE(S): Purcell, Thomas, Montfort L'Amaury, France
Synthelabo, Le Plessis Robinson, France (non-U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 5418241		19950523
APPLICATION INFO.:	US 1993-127058		19930927 (8)

	NUMBER	DATE
PRIORITY INFORMATION:	FR 1992-11550	19920928
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	Granted	
PRIMARY EXAMINER:	Chang, Celia	
LEGAL REPRESENTATIVE:	Jacobson, Price, Holman & Stern	
NUMBER OF CLAIMS:	5	
EXEMPLARY CLAIM:	1	
LINE COUNT:	516	

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The invention provides a compound which is a piperidine derivative of formula (I) ##STR1## in which R.sub.1 is hydrogen or straight or branched (C.sub.1 -C.sub.6) alkyl, R.sub.2 is hydrogen or straight or branched (C.sub.1 -C.sub.8) alkyl, Z and Z.sub.1 which may be the same or different, each is hydrogen, chlorine, hydroxyl, amino, nitro, hydroxymethyl, (C.sub.1 -C.sub.2) alkyl, (C.sub.1 -C.sub.8) alkoxy straight or branched (C.sub.1 -C.sub.5) alkoxycarbonyl or aryl (C.sub.1 -C.sub.2) alkoxy, Z is in position 4, 6 or 7 and Z and Z.sub.1 cannot both be hydrogen, or its addition salt with a pharmaceutically acceptable acid and its therapeutic application.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

IT 155596-41-1P 155596-42-2P 155596-43-3P

155596-45-5P 155596-47-7P 155596-49-9P

155596-50-2P 155596-51-3P 155596-53-5P

155596-54-6P 155596-55-7P 155596-57-9P

155596-59-1P 155596-60-4P 155596-61-5P

155596-62-6P 155596-64-8P 155596-66-0P

155596-67-1P 155596-68-2P

(prepn. of, as serotonergic receptor antagonist)

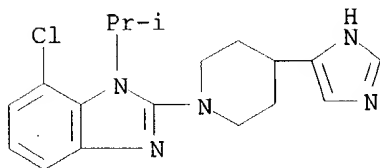
RN 155596-41-1 USPATFULL

CN 1H-Benzimidazole, 7-chloro-2-[4-(1H-imidazol-4-yl)-1-piperidinyl]-1-(1-methylethyl)-, (2E)-2-butenedioate (1:1) (9CI) (CA INDEX NAME)

CM 1

CRN 155596-40-0

CMF C18 H22 Cl N5



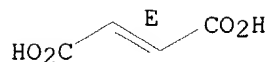
CM 2

CRN 110-17-8

CMF C4 H4 O4

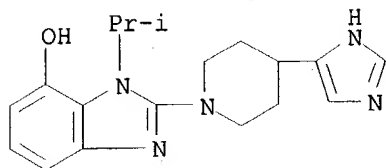
CDES 2:E

Double bond geometry as shown.



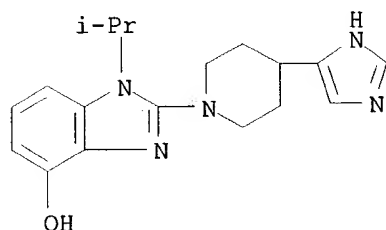
RN 155596-42-2 USPATFULL

CN 1H-Benzimidazol-7-ol, 2-[4-(1H-imidazol-4-yl)-1-piperidiny]-1-(1-methylethyl)- (9CI) (CA INDEX NAME)



RN 155596-43-3 USPATFULL

CN 1H-Benzimidazol-4-ol, 2-[4-(1H-imidazol-4-yl)-1-piperidiny]-1-(1-methylethyl)- (9CI) (CA INDEX NAME)



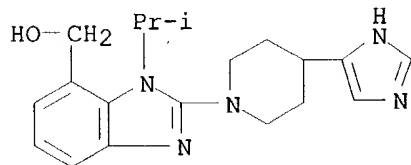
RN 155596-45-5 USPATFULL

CN 1H-Benzimidazole-7-methanol, 2-[4-(1H-imidazol-4-yl)-1-piperidiny]-1-(1-methylethyl)-, (2E)-2-butenedioate (1:1) (salt) (9CI) (CA INDEX NAME)

CM 1

CRN 155596-44-4

CMF C19 H25 N5 O



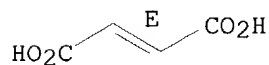
CM 2

CRN 110-17-8

CMF C4 H4 O4

CDES 2:E

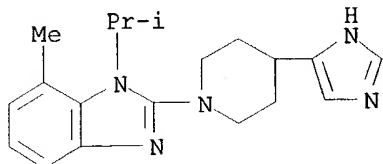
Double bond geometry as shown.



RN 155596-47-7 USPATFULL
CN 1H-Benzimidazole, 2-[4-(1H-imidazol-4-yl)-1-piperidinyl]-7-methyl-1-(1-methylethyl)-, (2E)-2-butenedioate (1:1) (9CI) (CA INDEX NAME)

CM 1

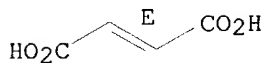
CRN 155596-46-6
CMF C19 H25 N5



CM 2

CRN 110-17-8
CMF C4 H4 O4
CDES 2:E

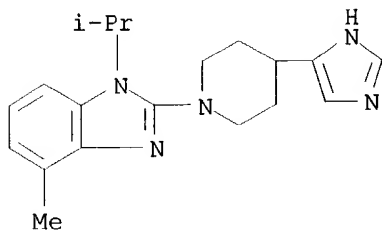
Double bond geometry as shown.



RN 155596-49-9 USPATFULL
CN 1H-Benzimidazole, 2-[4-(1H-imidazol-4-yl)-1-piperidinyl]-4-methyl-1-(1-methylethyl)-, (2E)-2-butenedioate (1:1) (9CI) (CA INDEX NAME)

CM 1

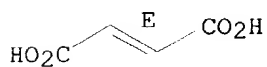
CRN 155596-48-8
CMF C19 H25 N5



CM 2

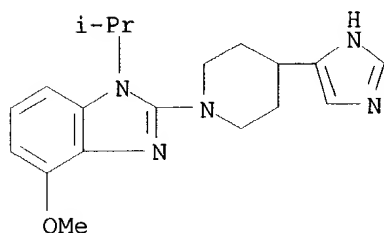
CRN 110-17-8
CMF C4 H4 O4
CDES 2:E

Double bond geometry as shown.



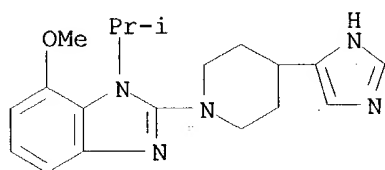
RN 155596-50-2 USPATFULL

1H-Benzimidazole, 2-[4-(1H-imidazol-4-yl)-1-piperidinyl]-4-methoxy-1-(1-methylethyl)- (9CI) (CA INDEX NAME)



RN 155596-51-3 USPATFULL

1H-Benzimidazole, 2-[4-(1H-imidazol-4-yl)-1-piperidinyl]-7-methoxy-1-(1-methylethyl)- (9CI) (CA INDEX NAME)



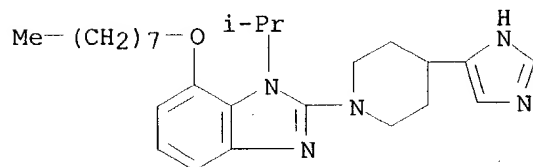
RN 155596-53-5 USPATFULL

1H-Benzimidazole, 2-[4-(1H-imidazol-4-yl)-1-piperidinyl]-1-(1-methylethyl)-
7-(octyloxy)-, (2Z)-2-butenedioate (1:2) (9CI) (CA INDEX NAME)

CM 1

CRN 155596-52-4

CMF C26 H39 N5 O



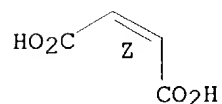
CM 2

CRN 110-16-7

CMF C4 H4 O4

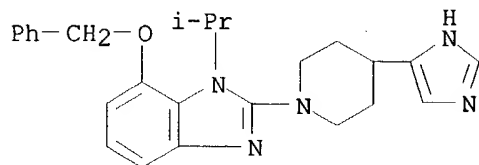
CDES 2:Z

Double bond geometry as shown.



RN 155596-54-6 USPATFULL

CN 1H-Benzimidazole, 2-[4-(1H-imidazol-4-yl)-1-piperidinyl]-1-(1-methylethyl)-7-(phenylmethoxy)- (9CI) (CA INDEX NAME)



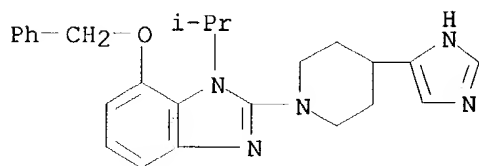
RN 155596-55-7 USPATFULL

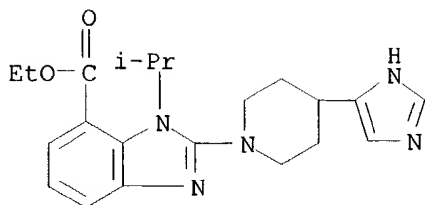
CN 1H-Benzimidazole, 2-[4-(1H-imidazol-4-yl)-1-piperidinyl]-1-(1-methylethyl)-7-(phenylmethoxy)-, (2Z)-2-butenedioate (1:2) (9CI) (CA INDEX NAME)

CM 1

CRN 155596-54-6

CMF C25 H29 N5 O





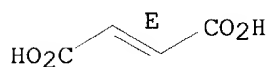
CM 2

CRN 110-17-8

CMF C4 H4 O4

CDES 2:E

Double bond geometry as shown.



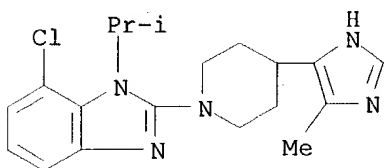
RN 155596-59-1 USPATFULL

CN 1H-Benzimidazole, 7-chloro-1-(1-methylethyl)-2-[4-(5-methyl-1H-imidazol-4-yl)-1-piperidinyl]-, (2E)-2-butenedioate (1:1) (9CI) (CA INDEX NAME)

CM 1

CRN 155596-58-0

CMF C19 H24 Cl N5



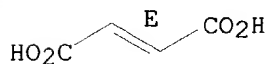
CM 2

CRN 110-17-8

CMF C4 H4 O4

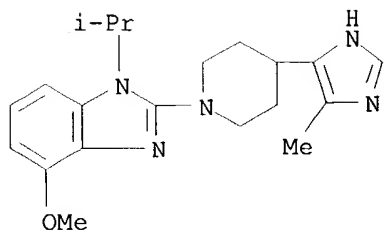
CDES 2:E

Double bond geometry as shown.



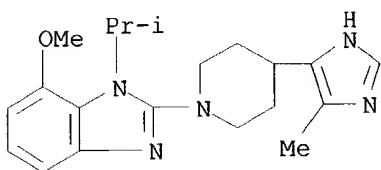
RN 155596-60-4 USPATFULL

CN 1H-Benzimidazole, 4-methoxy-1-(1-methylethyl)-2-[4-(5-methyl-1H-imidazol-4-yl)-1-piperidinyl]- (9CI) (CA INDEX NAME)



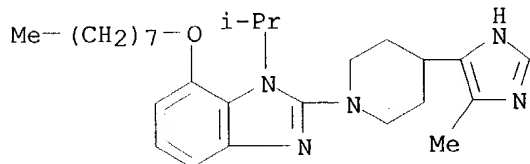
RN 155596-61-5 USPATFULL

CN 1H-Benzimidazole, 7-methoxy-1-(1-methylethyl)-2-[4-(5-methyl-1H-imidazol-4-yl)-1-piperidinyl]- (9CI) (CA INDEX NAME)



RN 155596-62-6 USPATFULL

CN 1H-Benzimidazole, 1-(1-methylethyl)-2-[4-(5-methyl-1H-imidazol-4-yl)-1-piperidinyl]-7-(octyloxy)- (9CI) (CA INDEX NAME)



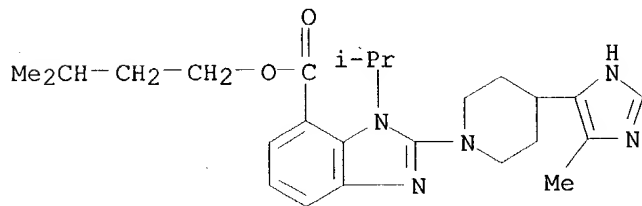
RN 155596-64-8 USPATFULL

CN 1H-Benzimidazole-7-carboxylic acid, 1-(1-methylethyl)-2-[4-(5-methyl-1H-imidazol-4-yl)-1-piperidinyl]-, 3-methylbutyl ester, (2E)-2-butenedioate (1:1) (9CI) (CA INDEX NAME)

CM 1

CRN 155596-63-7

CMF C25 H35 N5 O2



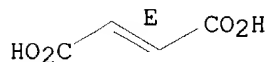
CM 2

CRN 110-17-8

CMF C4 H4 O4

CDES 2:E

Double bond geometry as shown.



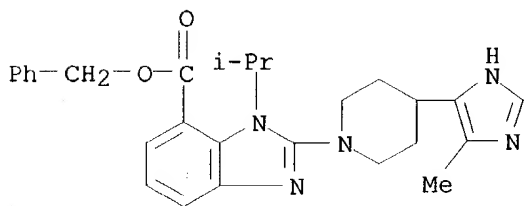
RN 155596-66-0 USPATFULL

CN 1H-Benzimidazole-7-carboxylic acid, 1-(1-methylethyl)-2-[4-(5-methyl-1H-imidazol-4-yl)-1-piperidinyl]-, phenylmethyl ester, (2E)-2-butenedioate (2:3) (9CI) (CA INDEX NAME)

CM 1

CRN 155596-65-9

CMF C27 H31 N5 O2



CM 2

CRN 110-17-8

CMF C4 H4 O4

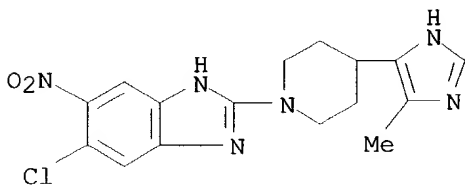
CDES 2:E

Double bond geometry as shown.



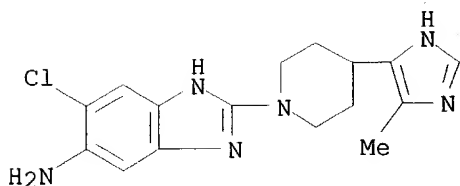
RN 155596-67-1 USPATFULL

CN 1H-Benzimidazole, 5-chloro-2-[4-(5-methyl-1H-imidazol-4-yl)-1-piperidinyl]-6-nitro- (9CI) (CA INDEX NAME)



RN 155596-68-2 USPATFULL

CN 1H-Benzimidazol-5-amine, 6-chloro-2-[4-(5-methyl-1H-imidazol-4-yl)-1-piperidinyl]-, dihydrochloride (9CI) (CA INDEX NAME)



● 2 HCl

L10 ANSWER 38 OF 38 USPATFULL on STN

ACCESSION NUMBER: 94:5884 USPATFULL

TITLE: Piperidine derivatives, their preparation and their therapeutic application

INVENTOR(S): Jegham, Samir, Franconville, France

DeFosse, Gerard, Paris, France

Purcell, Thomas, Montfort-l'Amaury, France

Schoemaker, Johannes, Gif-sur-Yvette, France

PATENT ASSIGNEE(S): Synthelabo, Le Plessis-Robinson, France (non-U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 5280030		19940118
APPLICATION INFO.:	US 1992-862376		19920402 (7)

	NUMBER	DATE
PRIORITY INFORMATION:	FR 1991-4009	19910403
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	Granted	
PRIMARY EXAMINER:	Ivy, C. Warren	
ASSISTANT EXAMINER:	Chang, Celia	
LEGAL REPRESENTATIVE:	Wegner, Cantor, Mueller & Player	
NUMBER OF CLAIMS:	7	
EXEMPLARY CLAIM:	1	
LINE COUNT:	600	

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB A compound which is a piperidine derivative of general formula (I) ##STR1## in which R.sub.1 represents a hydrogen atom, a linear or branched (C.sub.1-6)alkyl group or a cyclo(C.sub.3-8)alkyl group, X represents an oxygen atom, a sulphur atom or a group of general formula N--R.sub.3 in which R.sub.3 is a hydrogen atom, or a linear or branched (C.sub.1-8)alkyl, cyclo(C.sub.3-6)alkyl, cyclo(C.sub.3-6)alkylmethyl, (C.sub.1-4)alkoxy-(C.sub.1-4)alkyl, phenyl, pyridin-4-yl, pyridin-3-yl, pyridin-4-ylmethyl or pyridin-3-ylmethyl group and Z represents a hydrogen or fluorine atom and acid addition salts thereof with pharmaceutically acceptable acids, can be used for the treatment and prevention of disorders in which 5-HT receptors are involved.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

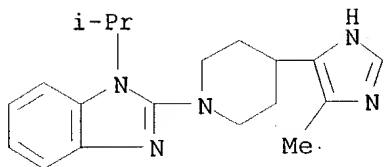
IT 146365-53-9P 146365-54-0P 146365-56-2P
146365-58-4P 146365-60-8P 146365-61-9P
146365-62-0P 146365-64-2P 146365-65-3P
146365-66-4P 146365-67-5P 146365-69-7P
146365-71-1P 146365-72-2P 146365-74-4P
146365-75-5P 146365-77-7P 146365-79-9P
146365-80-2P 146365-82-4P 146365-83-5P

146365-85-7P 146365-86-8P 146365-88-0P
146365-90-4P 146365-91-5P 146365-92-6P
146365-93-7P 146365-95-9P 146365-96-0P
146365-97-1P 146365-98-2P 146365-99-3P
146395-69-9P

(prepn. of, as 5-HT receptor ligand)

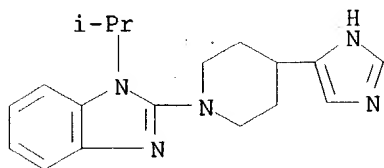
RN 146365-53-9 USPATFULL

CN 1H-Benzimidazole, 1-(1-methylethyl)-2-[4-(5-methyl-1H-imidazol-4-yl)-1-piperidinyl]- (9CI) (CA INDEX NAME)



RN 146365-54-0 USPATFULL

CN 1H-Benzimidazole, 2-[4-(1H-imidazol-4-yl)-1-piperidinyl]-1-(1-methylethyl)- (9CI) (CA INDEX NAME)



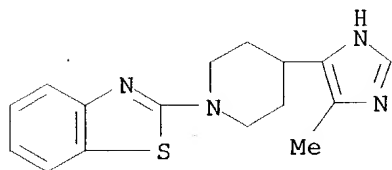
RN 146365-56-2 USPATFULL

CN Benzothiazole, 2-[4-(5-methyl-1H-imidazol-4-yl)-1-piperidinyl]-, (2Z)-2-butenedioate (1:1) (9CI) (CA INDEX NAME)

CM 1

CRN 146365-55-1

CMF C16 H18 N4 S



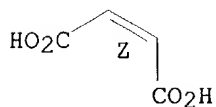
CM 2

CRN 110-16-7

CMF C4 H4 O4

CDES 2:Z

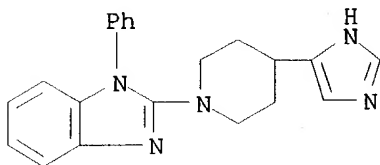
Double bond geometry as shown.



RN 146365-58-4 USPATFULL
CN 1H-Benzimidazole, 2-[4-(1H-imidazol-4-yl)-1-piperidinyl]-1-phenyl-,
(2E)-2-butenedioate (2:3) (9CI) (CA INDEX NAME)

CM 1

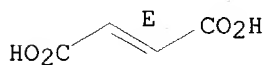
CRN 146365-57-3
CMF C21 H21 N5



CM 2

CRN 110-17-8
CMF C4 H4 O4
CDES 2:E

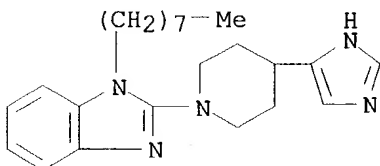
Double bond geometry as shown.



RN 146365-60-8 USPATFULL
CN 1H-Benzimidazole, 2-[4-(1H-imidazol-4-yl)-1-piperidinyl]-1-octyl-,
(2E)-2-butenedioate (1:1) (9CI) (CA INDEX NAME)

CM 1

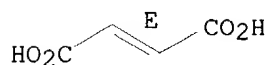
CRN 146365-59-5
CMF C23 H33 N5



CM 2

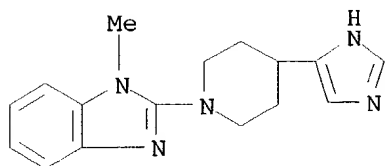
CRN 110-17-8
CMF C4 H4 O4
CDES 2:E

Double bond geometry as shown.



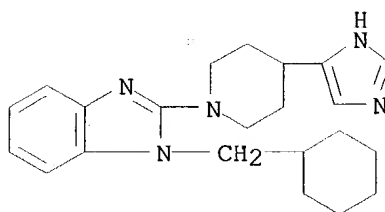
RN 146365-61-9 USPATFULL

CN 1H-Benzimidazole, 2-[4-(1H-imidazol-4-yl)-1-piperidinyl]-1-methyl- (9CI)
(CA INDEX NAME)



RN 146365-62-0 USPATFULL

CN 1H-Benzimidazole, 1-(cyclohexylmethyl)-2-[4-(1H-imidazol-4-yl)-1-piperidinyl]- (9CI) (CA INDEX NAME)



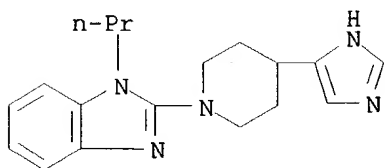
RN 146365-64-2 USPATFULL

CN 1H-Benzimidazole, 2-[4-(1H-imidazol-4-yl)-1-piperidinyl]-1-propyl-,
(2E)-2-butenedioate (1:1) (9CI) (CA INDEX NAME)

CM 1

CRN 146365-63-1

CMF C18 H23 N5



CM 2

CRN 110-17-8

CMF C4 H4 O4

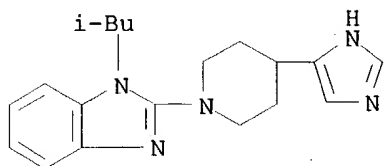
CDES 2:E

Double bond geometry as shown.



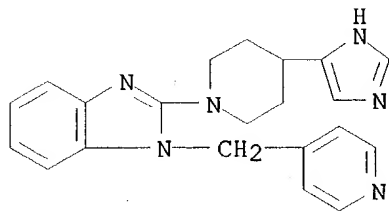
RN 146365-65-3 USPATFULL

CN 1H-Benzimidazole, 2-[4-(1H-imidazol-4-yl)-1-piperidinyl]-1-(2-methylpropyl)- (9CI) (CA INDEX NAME)



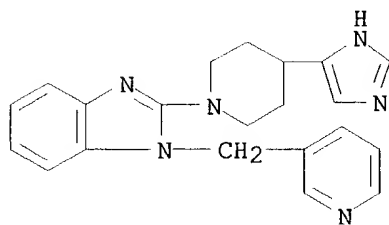
RN 146365-66-4 USPATFULL

CN 1H-Benzimidazole, 2-[4-(1H-imidazol-4-yl)-1-piperidinyl]-1-(4-pyridinylmethyl)- (9CI) (CA INDEX NAME)



RN 146365-67-5 USPATFULL

CN 1H-Benzimidazole, 2-[4-(1H-imidazol-4-yl)-1-piperidinyl]-1-(3-pyridinylmethyl)- (9CI) (CA INDEX NAME)



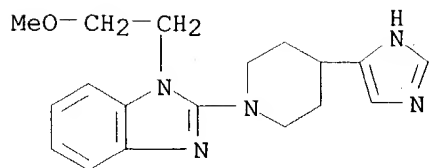
RN 146365-69-7 USPATFULL

CN 1H-Benzimidazole, 2-[4-(1H-imidazol-4-yl)-1-piperidinyl]-1-(2-methoxyethyl)-, ethanedioate (1:1) (9CI) (CA INDEX NAME)

CM 1

CRN 146365-68-6

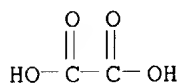
CMF C18 H23 N5 O



CM 2

CRN 144-62-7

CMF C2 H2 O4



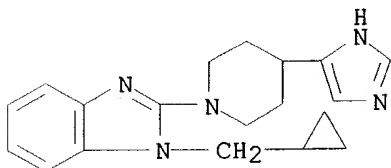
RN 146365-71-1 USPATFULL

CN 1H-Benzimidazole, 1-(cyclopropylmethyl)-2-[4-(1H-imidazol-4-yl)-1-piperidinyl]-, (2E)-2-butenedioate (1:1) (9CI) (CA INDEX NAME)

CM 1

CRN 146365-70-0

CMF C19 H23 N5



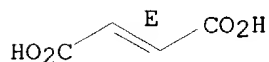
CM 2

CRN 110-17-8

CMF C4 H4 O4

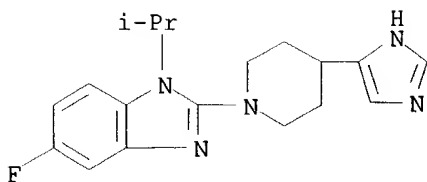
CDES 2:E

Double bond geometry as shown.



RN 146365-72-2 USPATFULL

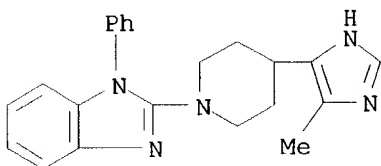
CN 1H-Benzimidazole, 5-fluoro-2-[4-(1H-imidazol-4-yl)-1-piperidinyl]-1-(1-methylethyl)- (9CI) (CA INDEX NAME)



RN 146365-74-4 USPATFULL
CN 1H-Benzimidazole, 2-[4-(5-methyl-1H-imidazol-4-yl)-1-piperidinyl]-1-phenyl-
, (2E)-2-butenedioate (2:3) (9CI) (CA INDEX NAME)

CM 1

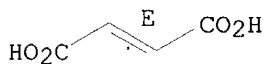
CRN 146365-73-3
CMF C22 H23 N5



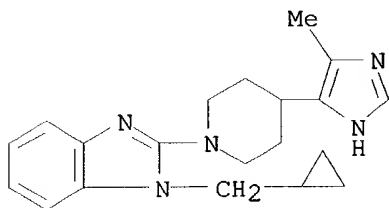
CM 2

CRN 110-17-8
CMF C4 H4 O4
CDES 2:E

Double bond geometry as shown.



RN 146365-75-5 USPATFULL
CN 1H-Benzimidazole, 1-(cyclopropylmethyl)-2-[4-(5-methyl-1H-imidazol-4-yl)-1-piperidinyl]-
(9CI) (CA INDEX NAME)

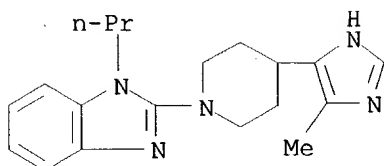


RN 146365-77-7 USPATFULL
CN 1H-Benzimidazole, 2-[4-(5-methyl-1H-imidazol-4-yl)-1-piperidinyl]-1-propyl-
, (2Z)-2-butenedioate (1:2) (9CI) (CA INDEX NAME)

CM 1

CRN 146365-76-6

CMF C19 H25 N5



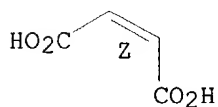
CM 2

CRN 110-16-7

CMF C4 H4 O4

CDES 2:Z

Double bond geometry as shown.



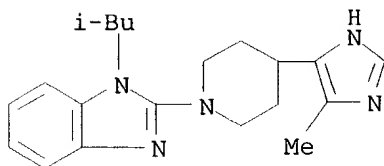
RN 146365-79-9 USPATFULL

CN 1H-Benzimidazole, 2-[4-(5-methyl-1H-imidazol-4-yl)-1-piperidinyl]-1-(2-methylpropyl)-, ethanedioate (1:1) (9CI) (CA INDEX NAME)

CM 1

CRN 146365-78-8

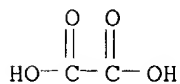
CMF C20 H27 N5



CM 2

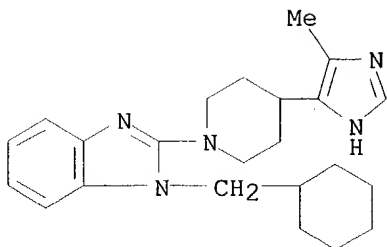
CRN 144-62-7

CMF C2 H2 O4



RN 146365-80-2 USPATFULL

CN 1H-Benzimidazole, 1-(cyclohexylmethyl)-2-[4-(5-methyl-1H-imidazol-4-yl)-1-piperidinyl]- (9CI) (CA INDEX NAME)



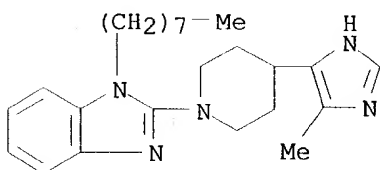
RN 146365-82-4 USPATFULL

CN 1H-Benzimidazole, 2-[4-(5-methyl-1H-imidazol-4-yl)-1-piperidinyl]-1-octyl-, (2E)-2-butenedioate (2:5) (9CI) (CA INDEX NAME)

CM 1

CRN 146365-81-3

CMF C24 H35 N5



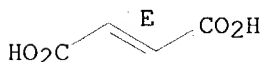
CM 2

CRN 110-17-8

CMF C4 H4 O4

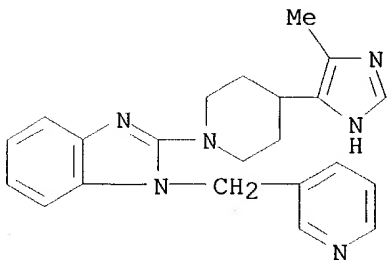
CDES 2:E

Double bond geometry as shown.



RN 146365-83-5 USPATFULL

CN 1H-Benzimidazole, 2-[4-(5-methyl-1H-imidazol-4-yl)-1-piperidinyl]-1-(3-pyridinylmethyl)- (9CI) (CA INDEX NAME)



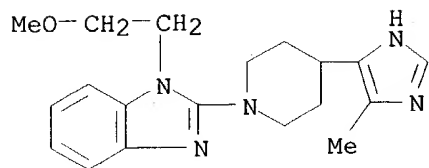
RN 146365-85-7 USPATFULL

CN 1H-Benzimidazole, 1-(2-methoxyethyl)-2-[4-(5-methyl-1H-imidazol-4-yl)-1-piperidinyl]-, ethanedioate (1:1) (9CI) (CA INDEX NAME)

CM 1

CRN 146365-84-6

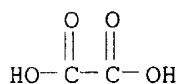
CMF C19 H25 N5 O



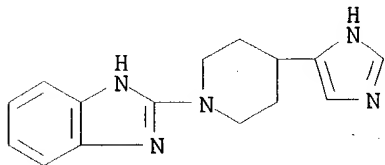
CM 2

CRN 144-62-7

CMF C2 H2 O4



RN 146365-86-8 USPATFULL

CN 1H-Benzimidazole, 2-[4-(1H-imidazol-4-yl)-1-piperidiny]-, dihydrochloride
(9CI) (CA INDEX NAME)

● 2 HCl

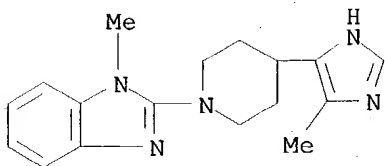
RN 146365-88-0 USPATFULL

CN 1H-Benzimidazole, 1-methyl-2-[4-(5-methyl-1H-imidazol-4-yl)-1-piperidiny]-
, ethanedioate (2:1) (9CI) (CA INDEX NAME)

CM 1

CRN 146365-87-9

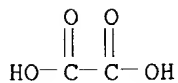
CMF C17 H21 N5



CM 2

CRN 144-62-7

CMF C2 H2 O4



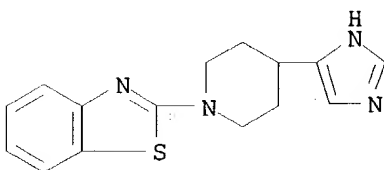
RN 146365-90-4 USPATFULL

CN Benzothiazole, 2-[4-(1H-imidazol-4-yl)-1-piperidinyl]-,
(2Z)-2-butenedioate (1:1) (9CI) (CA INDEX NAME)

CM 1

CRN 146365-89-1

CMF C15 H16 N4 S



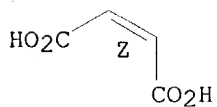
CM 2

CRN 110-16-7

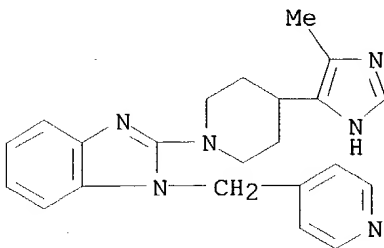
CMF C4 H4 O4

CDES 2:Z

Double bond geometry as shown.



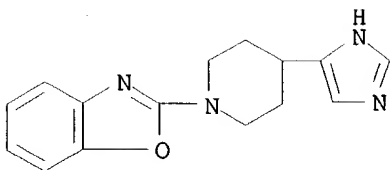
RN 146365-91-5 USPATFULL

CN 1H-Benzimidazole, 2-[4-(5-methyl-1H-imidazol-4-yl)-1-piperidinyl]-1-(4-
pyridinylmethyl)- (9CI) (CA INDEX NAME)

RN 146365-92-6 USPATFULL

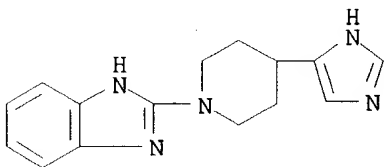
CN Benzoxazole, 2-[4-(1H-imidazol-4-yl)-1-piperidinyl]- (9CI) (CA INDEX

NAME)



RN 146365-93-7 USPATFULL

CN 1H-Benzimidazole, 2-[4-(1H-imidazol-4-yl)-1-piperidinyl]- (9CI) (CA INDEX NAME)



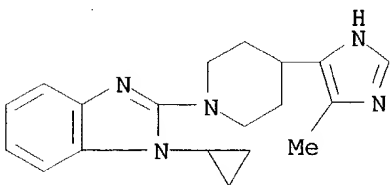
RN 146365-95-9 USPATFULL

CN 1H-Benzimidazole, 1-cyclopropyl-2-[4-(5-methyl-1H-imidazol-4-yl)-1-piperidinyl]-, (2E)-2-butenedioate (1:1) (9CI) (CA INDEX NAME)

CM 1

CRN 146365-94-8

CMF C19 H23 N5



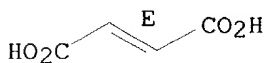
CM 2

CRN 110-17-8

CMF C4 H4 O4

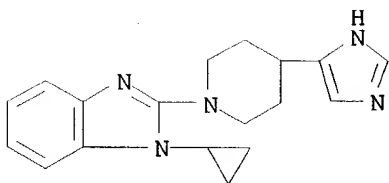
CDES 2:E

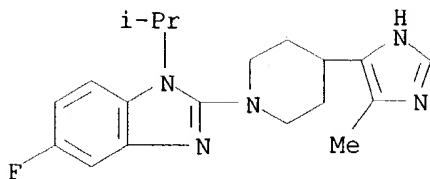
Double bond geometry as shown.



RN 146365-96-0 USPATFULL

CN 1H-Benzimidazole, 1-cyclopropyl-2-[4-(1H-imidazol-4-yl)-1-piperidinyl]- (9CI) (CA INDEX NAME)





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L3          STR
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L9          0 SEA FILE=CAOLD ABB=ON L6
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